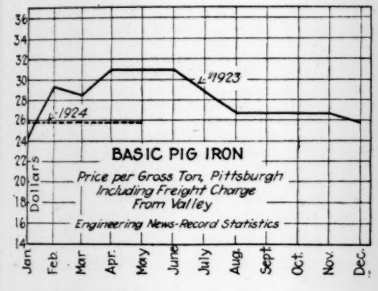
# CONSTRUCTION NEWS

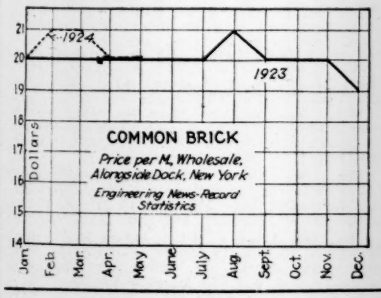
*Engineering News-Record, May 1, 1924*

## *The Construction Barometer*

### *Prices Weaker Owing to Lessening of Demand—Labor Cost Mounting Higher—No Buying for Replenishment of Stocks*

THE price situation in most of the basic materials is weaker owing to gradual lessening of demand. Reserve stocks of building materials are ample and for this reason chances of higher prices in the immediate future are very small. The tendency of buyers at the present time is to keep down indebtedness and inventories. Decreased demand and sharper competition for business has resulted in a slight lowering of steel prices. Reports received within the week from the lumber industry, however, indicate a revival of production, shipments and new orders. While there are at present no strikes of importance in the building industry, the cost of common as well as skilled labor is mounting higher, as shown by the accompanying chart.




### *Engineering News-Record Statistics*

Minimum on water-works and excavations, $15,000; other public work, $25,000; industrial buildings, $40,000; commercial buildings, $150,000.

**VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES**

| Week Ended | Public Work | Private Work | Total Contracts |
|---|---|---|---|
| Apr. 10 | 16,276,000 | 17,337,000 | 33,613,000 |
| Apr. 17 | 28,549,000 | 22,293,000 | 50,842,000 |
| Apr. 24 | 22,575,000 | 12,153,000 | 34,728,000 |
| 3 weeks | $67,400,000 | $51,783,000 | $119,183,000 |

**LARGE BUILDING CONTRACTS—NUMBER AND VALUE**

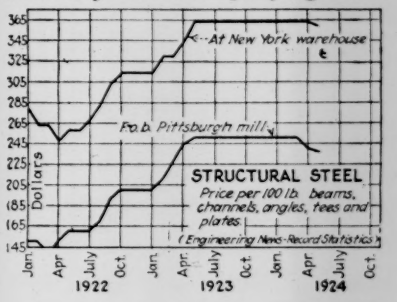
| Week Ended | Public No. | Public Work | Private No. | Private Work |
|---|---|---|---|---|
| Apr. 10 | 13 | 2,548,000 | 31 | 11,075,000 |
| Apr. 17 | 16 | 4,210,000 | 49 | 16,139,000 |
| Apr. 24 | 10 | 5,810,000 | 24 | 9,124,000 |
| 3 weeks | 39 | $12,568,000 | 104 | $36,338,000 |

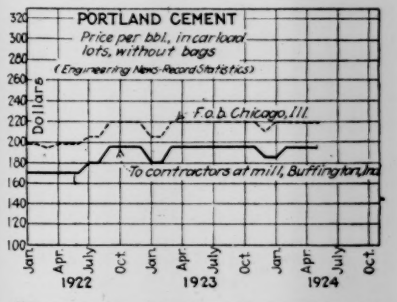
**NUMBER OF LARGE JOBS NOW OUT FOR BIDS**

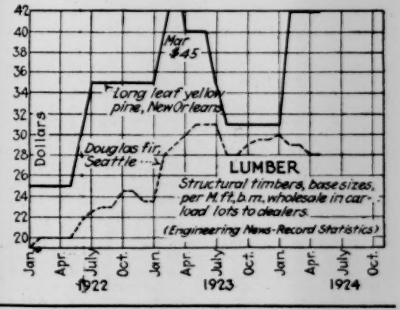
| Week Ended | Private | All Buildings | Public Streets and Roads | Public Water-works and Sewers | Public All Public |
|---|---|---|---|---|---|
| Apr. 10 | 48 | 54 | 120 | 41 | 289 |
| Apr. 17 | 42 | 52 | 109 | 41 | 254 |
| Apr. 24 | 25 | 51 | 104 | 55 | 282 |

**MATERIALS PRICES EASIER—RISE IN LABOR COST**

| | Quoted on May 1 at | Price was | On |
|---|---|---|---|
| Structurals, Pittsburgh, 100 lb. | $2.25 @2.50 | $2.30 @2.50 | Apr. 10 |
| Cement, Chi., net bbl. | 2.20 | 2.10 | Jan. 24 |
| Pine, N. Y., M.ft. | 63.00 | 64.00 | Apr. 10 |
| Fir, San Fran., M.ft. | 36.00 | 38.00 | Jan. 24 |
| Common labor, hr. | .56 | .55 | Apr. 24 |




## Waterworks

### PROPOSED WORK

**N. Y., Avon-by-Sea**—Plans drilling wells and constructing pumping station. $42,000. J. Thomson, mayor. Engineer not selected.

**N. C. Walnut Cove**—See "Sewers."

**La., Glenmore**—Having preliminary plans prepared water works plant and distribution system, sewers, etc. $25,000. H. A. Mentz, Magnolia, Miss., engr.

**Tenn., Knoxville**—Having surveys made new filtration plant and reservoir. Approximately $2,000,000. B. H. Klyce Co., 4th and 1st Natl. Bank Bldg., Nashville, consult. engr.

**Ky., Louisville** — Louisville Water Co., 13th St., plans 42-in. mains in Eastern Parkway from Shelby to Preston Sts. $65,000.

**Ky., Morganfield**—Soon takes bids waterworks improvements, incl. pumping plant, 6 mi. 8-in. pipe, 800,000 gal. filter plant. $100,000. Gennett, Seeley & Fleming, Randolph Bldg., Memphis, Tenn., engrs. Noted Apr. 10.

**Ky., Ormsby**—(Lakewood P. O.)—Louisville and Jefferson County Childrens Home plans water supply system for home, here. $20,000. W. T. Harrigan & Co., Realty Bldg., Louisville, engrs.

**O., Cleveland**—Takes bids this summer 16 c.i. mains $62,800, also c.i. mains in Luke and Abell Aves., $40,000. A. V. Ruggles, City Hall, engr.

**O., Garfield Heights** (Cleveland, P. O.)—Takes bids after July 1, 4 mi. 6 and 8 in. c.i. mains. R. F. Munz, Town Hall, engr.

**Wis., Madison**—Having plans prepared c.i. mains and connections in various streets. $69,000. E. E. Parker, city engr. Noted Mar. 27.

**Ia., Storm Lake**—Plans waterworks improvements, incl. sedimentation basin, aerator, filter bed, etc. $15,000. R. U. Kinne, city clk.

**Kan., Coffeyville**—C. Potteck, city clk., plans to purchase 2,000 kw. steam turbo generator and surface condenser for waterworks.

**Kan., Riley**—Voted $31,000 bonds, 50,000 gal. tank on tower, 11,136 lin.ft. 4- to 8-in. c.i. pipe, 3,700 lin.ft. 2-in. galvanized pipe, 25 hydrants, deep well, etc., Hensington Eng. Co., Natl. Bldg., Omaha, Neb., engrs. Noted Apr. 10.

**Ark., Altheimer** — See "Contracts Awarded."

**Tex., Colorado**—Preparing plans 12 in. main from pumping plant to city, also miscellaneous laterals. $25,000. W. J. Powell, Municipal Bldg., Dallas, engr.

**Tex., Dallas**—Making plans 10 in. main in North Henderson St., from McMillan

Waterworks (Continued)

to McKinney Sts., $17,000; 10 in. main in Raitman St. from Lindell St. to city limits north, $15,000. E. A. Kingsley, city engr.

**Tex., Dallas**—Preparing plans 12 in. main in Good St. $40,000. E. A. Kingsley, city engr.

**Tex., Midland**—See "Sewers."

**Okla., Davenport** — Plans new waterworks incl. mains, well, pumping equipment and elevated tank. $45,000. Gant & Baker, 1st Natl. Bank Bldg., Oklahoma City, engrs.

**Okla., Stillwater**—Voted $200,000 bonds earth dam, pipe lines, main extensions, etc. G. F. Matkin, city clk. Noted Jan. 17.

**Wash., Bellingham**—Plans $200,000 bond issue, extending and improving water system in northern part of city.

**Wash., Kelso**—Election May 20, $250,000 bonds, water system. Baar & Cunningham, engrs., Spalding Bldg., Portland, Ore., prepared report, and G. North, city engr., completed plans. Noted Apr. 10.

**Calif., Santa Monica**—Plans to purchase centrifugal pump, 1,000 g.p.m., 220 ft. direct connected to 220 volt motor. J. Morton, city engr.

**Ont., Essex**—Having palns prepared extending water system, 6 in. c.i. mains, concrete or steel reservoir. $40,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

**Ont., Leamington** — Having plans prepared 12 in. pipe line to lake, pumping plant and 220,000 gal. storage tank, $75,000. Prices wanted on materials and carload of various size gas and water pipe. R. M. Selkirk, City Hall, engr.

**Ont., Toronto** — Plans to install high pressure fire pump at main pumping station. $112,000. R. C. Harris, city engr.

### BIDS DESIRED

**N. Y., Brooklyn** — May 6, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Farragut Rd., Bedford, Coney Island, New York, P, Q, M, N, Foster, 8th and 10th Aves., 55th, 61st, 62nd, 64th, 68th, 71st, East 87th, East 95th, East 96th, East 98th, East 99th, East 100th, West5th, East 2nd, East 8th, East 13th, East 18th, East 27th, East 28th, East 34th, East 51st, East 52nd, East 53rd and West 11th Sts., Delamere, Elmore and Kenmore Places, here.

**N. Y., Long Island City**—May 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Bway., Poe Pl., 6th, 15th and Fillmore Aves., Peel, 10th, 43rd and 44th Sts., here.

**N. Y., New York** — May 5, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Grand Concourse, East Moshulu Parkway, Aqueduct, Montgomery, Van Cortlandt and Waldo Aves., East 136th, East 190th, West 175th, West 180th and West 197th Sts.

**N. Y., New York** — May 7, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Reservoir Oval East, Holt Pl., Crotona, Hull, Reservoir, Rochambeau, Van Cortlandt, Barnes, Boyd, Bussing, Gunther, Bruner, Monticello, Murdock, Nereid, Pittman, Wickham and DeReimer Aves., East 223rd, East 234th, East 206th and East 211th Sts.

**Pa., Phila.**—May 6, by Bureau Water, Dept. Pub. Wks., City Hall, pipe and fittings for high pressure fire system incl. 3,800 lin.ft. 16 in., 6,780 lin. ft. 12 in. and 2,700 lin. ft. 8 in. pipe Contr. 668; laying high pressure fire mains Contr. 669; safety devices for pumping stations Contr. 670; 12 ten in. twin or duplex strainers for Lardners Point pumping station, Contr. 671; auxiliary heating coils for headquarters Contr. 672; furnishing and installing 2 sand machines at Towesdale, Roxborough, Queen Lane, and Belmont filters, Contr. 674; 1 c.i. high pressure engine cylinder for Lardners Point pumping station, Contr. 675; 600 single nozzle fire hydrants, Contr. 679; 200 six in., 50 eight in. and 25 twelve in. valves, Contr. 680.

**O., Bexley** (Columbus P. O.)—May 12, by S. W. Roderick, village clk., 12,530 ft. 4- to 8-in. mains in Broad and Main Sts., Powell and Fair Aves., Remington, Stanwood and Hartley Rds., $32,100. Jennings-Lawrence Co., 511-512 Hartman Bldg., Columbus, engrs.

**O., Cleveland** — May 7, 13,000 cu.yd. excav. and 3,880 tons c.i. pipe, Contr. 33; 13,500 cu.yd. excav. and 995 tons c.i. pipe, Contr. 33 A. A. V. Ruggles, City Hall, engr.

**O., Cleveland**—May 7, by Cuyahoga Co., 11,700 ft. 6 and 12 in. c.i. mains in Mayfield Rd., Impvt. 350 C. To exceed $25,000. R. F. MacDowell, Court House, engr.

**Mich., Port Huron** — May 8, by E. C. Fitzpatrick, city clk., furnishing and installing one 10 m.g. and one 15 m.g. motor driven centrifugal pumps. E. R. Whitmore, city engr.

**Wis., North Milwaukee**—May 6, by W. E. Chase, city clk., 9,251 lin.ft. 6- to 8-in. c.i. mains in 8 streets. $20,000-$25,000. H. C. Webster, City Hall, engr.

**Wis., Racine**—June 2, by Racine Water Dept., 1.8 m.g. coagulation basin, pipe, valves, etc.; adv. E. N.-R. May 1.

**Minn., Minneapolis**—May 8, by F. S. Gram, city purch. agt., two 1-ton trucks for Water Dept. N. W. Elsberg, city engr.

**Neb., Kearney**—May 7, by M. E. Burke, city clk., 3 wells 18 in. inside diam., 1 m.g. concrete reservoir, power house, well houses, pole line connections, two 300 hp. oil engine units, switchboard and transformer, 3 motor driven pumps, furnishing and laying c.i. pipe. $135,000. Burns M. McDonnell, Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 21.

**Colo., Denver**—June 10, by City and Denver Co., by and through its Bd. Water Comrs., 1509 Cleveland Pl., Contr. A, 64 m.g. rapid filter plant, Contr. B, intake from lake to filter plant, all located on north side of Marston Lake. B. Lowther, ch. engr.; adv. E. N.-R. May 1.

### BIDS RECEIVED

**N. Y., Albany**—Filtration plant, from J. J. Finr & Son, 176 Sherman St., $445,992. Noted Apr. 10.

**N. Y., Brooklyn** — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Apr. 28, mains in Aves. K and M, Mansfield Pl., Kingston, Lott, Newport and 3rd Aves., Carroll, Malta, 57th, 80th, 81st, 8th, 12th, 28th, 29th, 58th, 59th and 91st Sts., from Wattaga Contg. Co., 308 Lenox Ave., New York, $14,500. Noted Apr. 24.

**N. Y., Long Island City**—N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Apr. 28, mains in Fresh Pond Rd., Caldwell, Clermont, Firth, Flushing, Homans, Mount Olivet, Phelps, Prospect and Wilton Aves., Delia, Harrow, Henry, Hosack, Madison, Mazeau, Proctor, Ramsey, Seabury, Stockholm, Van Horn, Van Tassel and Weirfield Sts., here, from Stanhey Constr. Co., $15,000. Noted Apr. 24.

**N. Y., New York** — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., from Wattaga Contg. Co., 308 Lenox Ave., New York, mains in Claflin, Johnson, Netherland and University Ave., Whalen and West 195th Sts., Grand Concourse and Woodwin Terrace, $13,555. Jerome and Walton Aves., East 169th, 171st, 175th and 180th Sts., Elliot, Osborne and Wythe Places, $13,284. Noted Apr. 24.

**O., Ashtabula** — For 1,300 ft. tunnel, from Rice-Jones Co., Union Bldg., Cleveland, $113,200.

**O., Cleveland**—For 2,630 tons 60 in. c.i. mains in Woodland Ave., Sect. 30E, from D. Lowensohn, 6795 Wakefield Ave., $261,948. Noted Apr. 10.

**O., Cleveland** — Cuyahoga Co., Apr. 16, 15,000 ft. 6 and 8 in. c.i. mains, Impvt. 13, from M. Stein, 8016 Whitethorn Ave., $43,599. Noted Apr. 10.

**Minn., St. Paul** — See "Material and Equipment."

### CONTRACTS AWARDED

**N. C., North Wilkesboro**—Coagulating basin and two 500,000 gal. filter units, to Boyd Higgins & Goforth, Realty Bldg., Charlotte, $36,000.

**N. C., Robersonville**—For two 8 in. deep wells, 100,000 gal. steel tank and tower, 75,000 gal. concrete storage reservoir, necessary pumping equipment, septic tank, 32,000 ft. 2- to 10-in. c.i. mains, 22,600 ft. 8- to 10-in. sewer lines, to Boyd, Higgins & Goforth, Realty Bldg., Charlotte, $92,000.

**Ark., Altheimer**—For 75,000 gal. tank on 100 ft. tower, to Chicago Bridge & Iron Wks., 817 Praetorian Bldg., Dallas, Tex. Bids on 1,395 ft. 6 in. and 6,865 ft. 4 in. c.i. pipe, 16 fire hydrants and 13 gate valves were rejected. Noted Apr. 10.

**La., Houma**—City Clerk, City Hall, 250 to 500 water meters ¾ in. with ¾ in. connections and 15-50 water meters 1 in. with 1 in. connections, to Henry Mfg. Co., South Boston, (Boston Sta.), Mass.

**O., Cleveland**—For 1,875 tons 60 in. c.i. mains in Woodland Ave., Sect. 30 W, to J. Connelly Constr. Co., 7016 Euclid Ave., $184,267. Noted Apr. 24.

**O., Shaker Heights** (Cleveland P. O.)—For 7,555 ft. 6 and 8 in. c.i. mains in 4 streets, to Hanna & Michael, 2259 Cedar Ave., Cleveland, $22,221; Scottsdale Rd. (west section), to A. Marra Constr. Co., Ulmer Bldg., Cleveland, $15,188, 7 streets, to Great Lakes Constr. Co., Hickox Bldg., Cleveland, $45,634 work on latter 2 projects involves 23,120 ft. 6 and 8 in. c.i. pipe.

**Wis., Hurley** — Waterworks improvements, pumping and supply station, to Lyne-Bowler Chicago Co., 37 West Van Buren St., Chicago, $42,000. Noted Feb. 14.

**Minn., Minneapolis** — F. S. Gram, city purch. agt., 3 Venturi meters and 10 rate controllers for new filtration plant unit, to Builders Iron Fdry. Co., 9 Codding St., Providence, R. I., $5,205 and $14,900 respectively.

**Kan., Junction City** — Improving waterworks: 3 wells to G. Austin Mchy. Corp., North Kansas City, Mo., $6,200; 200,000 gal. concrete reservoir to Merkle Mchy. Contg. Co., 1733 Walnut St., Kansas City, Mo., $13,980; 75 hp. oil engine unit, to Fairbanks Morse Co., 1218 Liberty St., Kansas City, Mo., $8,700. Noted Apr. 17.

**Mo., Ava**—Russell & Axon, engrs., McDaniels Bldg., Springfield, water pipe lines here, to Brooks & Coon, Oklahoma City, Okla., for city. $18,138. Noted Apr. 3.

**Mo., St. Louis**—Will lay 12 in. c.i. main in Hall St., by day labor. $24,500. E. E. Wall, City Hall, comr.

**Calif., Oakland**—East Bay Water Co., 512 16th St., Upper San Leandro Storage Project, incl. storage dam, earth fill type, 185 ft. high, 656 ft. long on crest, crest width 75 ft., base about 1,150 ft., 1,260,000 cu.yd. earthwork, spillways, tunnels, filtration plant, 36 in. riveted steel pipe line, to Bates & Borland, Bank of Savings Bldg., cost plus, about $3,000,000.

**Ont., Ottawa**—Will build 5 mi. c.i. mains, by day labor. $70,000. A. F. Macallum, city engr.

**Ont., Port Colborne**—I. H. White, town clk., filtration building to W. J. Westaway, Hamilton, $16,800, filters to Gardner Constr. Co., Welland, $24,200. Noted Mar. 20.

## Sewers

### PROPOSED WORK

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., withdrew bids which were to be opened Apr. 15, sewer in Hammels Blvd. and Amstel Ave. Will readvertise.

**N. J., Orange** — Essex Co. (Newark), plans 5,621 ft. 15- to 24-in. rein.-con. storm water drain in Scotland St., here. $27,330. W. A. Stickel, Court House, Newark, engr.

**N. C., Walnut Cove**—Making plans 10,500 ft. 8- and 10-in. sanitary sewers and water mains. Piedmont Engineers, 421½ Trade St., Winston-Salem, engrs.

**La., Glenmore**—See "Waterworks."

**O., Garfield Heights** (Cleveland, P. O.)—Takes bids in July, 5 mi. vitr. and segmental blocks sewers. R. F. Munz, Town Hall, engr.

**Mich., Detroit**—Having plans prepared 26,050 ft. Lateral 4122, 680 ft. 4 ft. 6 in., vitr. pipe and 2 ring brick, incl. 548 ft. 4 ft., 548 ft. 3 ft. 6 in., 284 ft. 3 ft., and 345 ft. 2 ft. 6 in.; 1,700 ft. Lateral 4114, 12-15 in vitr. pipe; 2,678 ft. Lateral 4119, 12-24 in.; 770 ft. Lateral 4121, 18-30 in. pipe. G. Jerome, city engr.

**Mo., Hannibal** — Making preliminary plans 36,000 ft. storm and sanitary sewers in South Side Sewer Dist. $76,000. W. R. Gettler, City Hall, engr.

**Mo., St. Louis** — Making preliminary plans repairing Southern sewer and extending its outlet into Mississippi River. $113,500. W. W. Horner, 300 City Hall, engr.

**Mo., St. Louis** — Soon takes bids Ohio-Montrose Sewer, 14,050 ft. 8- to 24-in. vitr. clay pipe, 10,655 ft. brick or segmental block pipe and 2,635 ft. concrete and rein.-con. pipe, etc. $550,000. W. W. Horner, 300 City Hall, engr. Noted Dec. 13.

**Tex., Midland**—Election May 21, $68,000 bonds modern sewerage system, also $7,000 bonds for waterworks improvements. T. P. Barron, mayor.

**Wash., Centralia**—Voted $60,000 bonds, extension to sanitary sewerage system Noted Mar. 20.

**Wash., Hoquiam**—Plans sewerage system for East Side. $46,500. W. L. Lovejoy, city engr.

**Ore., Marshfield**—Takes bids in about 90 days, Mill Slough sewer. $80,000 for wood, $160,000 concrete. J. T. Brand, Marshfield, engr.

**Ont., Port Elgin**—Plans election to vote on $50,000 bonds, sewerage system. Prices wanted on materials and equipment. W. Storrie, Confederation Life Bldg., Toronto, engr.

**Ont., Riverside**—Having plans prepared 19,000 ft. 8-24 in. vitr. sanitary and storm sewers in various streets. $35,000. A. Smith, city engr.

Sewers (Continued)

BIDS DESIRED

**N. Y., Brooklyn**—May 7, by E. Riegelmann, boro pres., Boro Hall, sewers in 71st to 45th Sts., 20th, 21st, Brooklyn and 11th Aves.

**N. Y., Long Island City**—May 5, by M. J. Connolly, pres. Queens Boro. Queens Subway Bldg., sewers in 7th, Clermont, Millwood, Cooper and 91st Aves.; Justice, Ivy, Lake, Sandol, and Pansy Sts.

**N. Y., New York**—May 6, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Pelham Parkway S., East 153rd St., Neill, Lydig, Waring, Matthews and Barnes Aves.

**N. Y., New York**—May 6, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Waring Ave. and Pelham Parkway. Noted Apr. 24.

**N. Y., Port Chester**—May 19, by F. G. Schmidt, village clk., sewer and tunnel or conduit in connection therewith; adv. E. N.-R. May 1.

**N. J., Plainfield**—May 5, by Common Council, about 3,000 lin.ft. 8- to 10-in. sanitary sewers from 8- to 14-ft. deep, incl. about 1,200 lin.ft. 4 in. c.i. house connections, No. 233; about 2,500 lin.ft. 12- to 30-in storm sewers from 4- to 7-ft. deep, No. 234. A. W. Vars, city engr.

**D. C., Wash.**—May 28, by Dist. Comrs., 4,470 lin.ft. sewers; adv. E. N.-R. May 1.

**O., Cleveland**—May 8, sewers in Abeil Ave. S. E., from East 123rd to East 130th Sts., Abell Ave. S. E. from East 130th to East 135th Sts., Castalia Ave. N. E., Corlett Ave. S. E., Highland Rd. S. W., Moltke Court S. W., Ridge Rd. S. W., Rosewood Ave. S. E., Saratoga Ave. S. W., Stimson Court S. W., Tampa Ave. S. W., Thrush Ave. S. W., East 69th Pl., East 143rd St., East Blvd., relief sewers in Miles Ave. S. E., Harvard Ave. S. E., East 114th St. and Locust Ave. N. W. To exceed $100,000. R. Hoffman, City Hall, engr.

**Ind., Tell City**—May 6, by City Council, sewer in Fulton St. $88,148. McCormick & Bennett, 2511 North 8th St., Terre Haute, city engr.

**Mich., Detroit**—May 5, by Dept. Pub. Wks., 4,561 ft. Wyoming Ave. Sewer Sect. 7, 1,635 ft. 6 ft. 9 in., 2,555 ft. 5 ft. 3 in., 266 ft. 5 ft. and 33 ft. 4 ft. 6 in. cylinder, 765 ft. Joann Ave. Extension Sewer in Joann Ave. Arm, 5 ft. 3 in. cylinder; 2,757 ft. Harper Arm East Ashland Ave. Sewer, 938 ft. 6 ft. and 1,409 ft. 5 ft. cylinder, 410 ft. 24 in. crock. G. Jerome, city engr.

**Wis., Madison**—May 9, by Bd. Pub. Wks. at office H. C. Buser, city clk., grading site for Nine Spring Sewage Disposal Works, in town Blooming Grove. E. E. Parker, city engr.; adv. E. N.-R. May 1.

**Wis., North Milwaukee**—May 6, by W. E. Chase, city clk., 10,380 ft. 8 in. sanitary sewers in 12 streets. $25,000. H. C. Webster, City Hall, engr.

BIDS RECEIVED

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, Apr. 23, **e. e. means engineers estimate**, sewer in Benson Ave., from J. W. Murphy, 8866 26th St., $27,300; sewer in 65th St., from Tomasetti & Co., Inc., 1133 60th St., 86.86% e. e. ($33,770); in Bay 34th St., from Nazzarro & Querriero, 82.41% e. e. $6,083; 73rd, West 23rd, East 37th and West 7th Sts., on Delamere Pl., from S. Ambrosio, 106 69th St., 88% e. e. $5,510, 93% e. e. $800, 81% e. e. $1,400, 84.98% e. e. $470, 80% e. e. $800 respectively; 80th St. and Ft. Hamilton Parkway, from Manmill Constr. Co., 2035 Douglass St., 88.8% e. e. $4,618 and 98.2% e. e. $1,740 respectively; 7th Ave. from C. F. Vacharas, 645 40th St., 93% e. e. $4,037; Ft. Hamilton Parkway, from Tozzi Contg. Co., 95.75% e. e. $1,406. Noted Apr. 17.

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, Apr. 23, Sect. 2C, Modification and extension of biological plant, 26th Ward disposal works, from Niewenhouse Co., Inc., 316 East 161st St., New York, $558,726. Noted Apr. 17.

**N. J., Plainfield**—Common Council about 7,000 lin.ft. 18- to 54-in. storm sewers, from Orange Eng. Constr. Co., 77 South Centre St., Orange, $42,893. Noted Apr. 10.

**O., Shaker Heights** (Cleveland, P. O.)—From Iafornaro Constr. Co., 2218 Murray Hill Rd., Cleveland, sewer in Newell Rd. $7,342, Lynnfield Rd. $15,379, Scottdale Rd. east section $22,466, Scottdale Rd. west section $18,215, Lattimore Rd. $9,390, Gridley Rd. $10,507, Rawnsdale Rd. $8,736; from W. B. Smith, Cleveland, sewer in Winchell Rd. $21,316, Lomond Blvd. $51,513, Sherrington Rd. $14,409.

**Mich., Detroit**—Dept. Pub. Wks., vitr. crock sewers from Cousino Mercier Co., 13183 Wark St., Sewer 4094 $10,364, Sewer 4103 $4,134, Sewer 4104 $8,065, Sewer 3854 $6,940, Sewer 4102 $14,053. Noted Apr. 17.

**Mich., Detroit**—Dept. Pub. Wks., lateral sewers between Outer Dr., City Line and Peters and Beatrice Aves., vitr. crock and brick, from S. Fattore, 2201 St. Joseph Ave., $19,439; Lateral 3939 in Dexter Blvd. and Dorris Ave., from Labelle to Livernois Aves.; from Detroit Drainage Constr. Co., 400 Penobscot Bldg., $33,730.

CONTRACTS AWARDED

**N. Y., Long Island City** — M. E. Connolly, pres. Queens Boro. 3rd and Tremont Aves., to E. Muccinni, sewers in Cooper Ave. $15,068, Whitlock Ave. $1,628, 86th Rd. $1,707, North Vine St. $5,216. Noted Apr. 3.

**N. Y., New York**—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Strang Ave., to C. Petrillo Co., $15,890; West 255th St., to A. Mussumeea, $9,498; Taylor Ave., to McDonald & Wilson, $22,301. Noted Apr. 24.

**N. Y., St. George**—J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in Arthur Ave., etc., to J. J. Johnson Sons, 455 Bway., West New Brighton, $18,008. Noted Apr. 24.

**Pa., Phila.**—Dir. Pub. Wks., Northeast sewerage treatment works, superstructure for 1 story, 27 x 42 ft. brick and steel locker building, also 1 story, 65 x 114 ft. brick and steel heating plant to Kober Constr. Co., 34 South 17th St., $22,950 and $86,000 respectively; mechanical equipment for heating plant to Roberts Filter Co., Darby, $87,490. Noted Apr. 24.

**Md., Baltimore**—Bd. Awards, constructing storm water drains in Dist. 48, Storm Water Contr. 66, 17,000 cu.yd. excav., 2,500 cu.yd. concrete masonry, 4,000 lin.ft. rein.-con. pipe drains from 24- to 54-in. diam., to Ryan Constr. Co., 8 Light St., $108,479. Noted Apr. 24.

**N. C., Robersonville**—See "Waterworks."

**O., Cleveland** — For 565 ft. 5 x 8 ft. rein.-con. sewer in Ontario St., to W. McDowell & Son, 10309 Miles Ave., $57,838; 85 ft. 6 ft. 3 in., 2,930 ft. 6 C and 510 ft. 5 C concrete sewer in Bellaire Rd. and East 187th St., to Graham & Henderson, 1274 West 108th St., $43,438 and $31,989 respectively. Noted Apr. 24.

**O., Shaker Heights** (Cleveland P. O.)—Sewers in Lytle and Sutherland Rds., to A. Marra Constr. Co., Ulmer Bldg., Cleveland, $13,395 and $10,278 respectively; Traver Rd., to Hanna & Michael, 2295 Cedar Ave., $8,278; Trayham Rd., to A. Lanese Co., 15820 Kinsman Rd., Cleveland, $7,934.

**Mich., Dearborn**—Laying 9,247 ft. 12-42 in. vitr. clay sewers in Michigan Ave. Dist., to Coffman Crane Service, 708 Empire Bldg., Detroit, $57,509. Noted Apr. 10.

**Ont., Sarnia**—Dominion Alloy Steel Corp., Royal Bank Bldg., Toronto, 12,500 ft. 8-12 in. vitr. pipe sewers at plant, to Webster Constr. Co., London.

**Ont., Toronto** — Sewers in University Creek to J. O. Jerau, 90 Curzon St., $86,548; St. Johns Rd. and 2 lanes to W. E. Taylor, 22 Falcon St., $423,497 and $797 respectively; lane north of Lappin Ave. to Murphy Contg. Co., 8 Wychwood Ave., $726, Tyrell Ave. to W. R. Worthington, 57 Lascelles Blvd., $38,993, Wychwood Ave. and 2 lanes to Grant Contg. Co., 50 Front St. E., $3,395, $960 and $583 respectively.

# Waste Disposal

BIDS DESIRED

**O., Euclid** — May 5, incinerator plant. $61,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs. Noted June 7.

# Bridges

PROPOSED WORK

**O., Dayton** — Montgomery Co. plans 2 span, 300 ft. steel truss highway bridge, 20 ft., over Miami River at Troy Pike, above here. $150,000. W. O. Pease, co. surv. Noted Apr. 12, 1923.

**Michigan** — State Hy. Dept., Lansing, **(B. means Bridge)** plans B. 8101006 over Ann Arbor R.R., Washtenaw Co., B. 800101, 90 ft. span across Paw Paw River, St. Joseph Co., B. 771703, 120 ft. span across Pine River, St. Clair Co., B. 750803, 90 ft. span across Fox River, Schoolcraft Co., B. 740901, two 60 ft. spans across Cass River, Sanilac Co., B. 740301, 75 ft. span across Black River, Sanilac Co., B. 680101, 150 ft. span across Au Sable River, Oscoda Co., B. 6313001, over Pere Marquette R.R., Oakland Co., B. 6206001, 175 ft. span over Pere Marquette R.R., Newaygo Co., B. 611201 across Cedar River, Muskegon Co., B. 550702 over Menominee River, Menominee Co., B. 520601, 75 ft. span across Yellow Dog River, Marquette Co., B. 4706001 over Grand Trunk R.R., Livingston Co., B. 8210002, Wayne Co., B. 8216002, over Pere Marquette R.R., Wayne Co., B. 8216001 over Pere Marquette R.R., Wayne Co., B. 821104, over Rouge River, Wayne Co., B. 8221001, under Michigan Central R.R. subway, Wayne Co., B. 821601, 80 ft. span over Rouge River, Wayne Co., B. 821304, two 40 ft. spans across Rouge River, Wayne Co., B. 821607, two 35 ft. spans over Rouge River, Wayne Co., B. 821004, two 100 ft. spans, Wayne Co., B. 820301, 120 ft. span over Rouge River, Wayne Co., B. 771301, two 75 ft. spans over Black River, St. Clair Co., B. 731301, over Tittabawassee River, Saginaw Co., B. 701402, five 90 ft. spans across Grand River, Ottawa Co., B. 390703, over Kalamazoo River, Kalamazoo Co., B. 061101, 90 ft. span over AuGres River, Arenac Co. G. C. Dillman, ch. engr.

**Kan., Wichita**—Sedgwick Co. had plans prepared Chisholm Bridge, 150 ft. concrete span. M. Roseberry, co. engr.

**Neb., Broken Bow** — See "Streets and Roads."

**Neb., Rushville** — See "Streets and Roads."

**Missouri** — State Hy. Dept., Jefferson City, plans thirteen 20 ft. rein.-con. slab spans, 20 ft. roadway, over drainage ditch, also two 200 ft. and two 120 ft. steel truss spans, 3 rein.-con. piers, etc., over Meramec River, St. Louis Co. B. H. Piepmeier, state highway engr.

**Mo., St. Louis**—Illinois Power & Light Co., 232 South Clark St., Chicago, soon takes bids widening roadway of bridge from 16 ft. to 40 ft., strengthening steel supports, additional approaches on St. Louis side, elevating tracks and rearranging track connections on Illinois side, etc. $3,500,000. Mojeska & Angier, Chicago, engrs. Bridge used by Illinois Traction System (subsidiary of owner), to cross Mississippi River. Noted Mar. 6.

BIDS DESIRED

**Vermont**—See "Streets and Roads."

**Mass., Holyoke**—May 13, by Bd. Pub. Wks., Room 2, City Hall, deck steel girder bridge, 100 ft. long, 40 ft. wide, steel work encased or covered with rein.-con., over second level canal, Cabot St. From $35,000 to $45,000; adv. E. N.-R. May 1. Noted Mar. 20.

**N. Y., New York**—May 2, by E. W. Buckley, comr. Purch., Municipal Bldg., machinery and steel for North Channel bridge, to Dept. Plant & Structures.

**Virginia**—See "Streets and Roads."

**W. Va., Clarksburg**—See "Streets and Roads."

**Tennessee**—May 9, by State Dept. Hys. & Pub. Wks., Nashville, one 100 ft. steel, four 30 ft. and two 40 ft. concrete spans over Collins River, and one 26 ft. concrete span over Mud Creek, on McMinnville-Rock Island Rd., Federal Aid Project 202, Warren Co.; one 100 ft. steel and nineteen 24 ft. concrete spans over Harpeth River, and one 24 ft. concrete span over Turners Creek, Federal Aid Project 205, Cheatham Co.; two 26 ft. concrete spans at Sta. 1057 plus 46, six 26 ft. spans at Sta. 1064 plus 89, one 66 ft. steel span at Sta. 1151 plus 57, Federal Aid Project 204, Tipton Co. J. G. Creveling, highway comr. Noted Apr. 24 under "Streets and Roads."

**Mich., Ishpeming**—May 5, by Marquette Co. Rd. Comn., two 40 ft. I beam spans on rock filled timber cribs, over Yellow Dog River, Bridge No. 520,601.

**Kan., Great Bend** — See "Streets and Roads."

BIDS RECEIVED

**La., New Orleans**—Comn. Council, City Hall, Apr. 15, 600 ft. viaduct to connect new ferry house at Canal and North Front Sts. with ferry landing at foot of Canal St., from O'Brien Constr. Co., Bd. Trade Bldg., $26,600, also furnishing 105 tons structural steel and 7 tons ornamental iron from Lukens Steel Co., 626 South Peters St., $12,267. Expense to be borne jointly by Louisville & Nashville R.R., Southern Pacific R.R., New Orleans Public Belt R.R. and New Orleans Pub. Serv. Inc., all in New Orleans.

**O., Cleveland** — Cuyahoga Co., concrete bridge, Hilliard Rd., from Walsh Constr. Co., 308 Euclid Ave., $809,624. Noted Apr. 10.

Bridges (Continued)

**Tex., Decatur**—See "Streets and Roads."

**California**—State Highway Comn., Sacramento, rein.-con. bridges at various points, from T. H. and M. C. Polk, Chico, $40,099.

CONTRACTS AWARDED

**Maine**—State Hy. Comn., Augusta, Holt Stream Bridge in Norway, and bridge over Barker Brook, in Lisbon, to Smith & Tweedie, Westfield, $7,132 and $5,740; Milo Stream Bridge in Howland, to E. A. Dekin, Howland, $8,340; Upper Corner Bridge over Narraguagus River, in Cherryfield, and Fernald Bridge over Pushaw Stream, in Alton, to Hunt & Palmer, Island Falls, $45,385 and $18,858 respectively; Passaconaway Bridge over Cape Neddick River, in York, to Robie Constr. Co., Manchester, N. H., $47,749. Noted May 1.

**N. Y., Scarsdale**—Bronx Parkway Comn., 72 West Pondfield Rd., Bronxville, constructing Bronx River Parkway Dr. Bridge 28, over tracks New York Central R.R., here, to Triest Contg. Corp., 247 Park Ave., New York, $195,230. Noted Apr. 3.

**Ga., Columbus** — City and Central of Georgia R.R. Co., Savannah, viaduct over 13th St., to Davis Constr. Co., Walton Bldg., Atlanta. About $300,000. Noted Mar. 6.

**Ia., Primghar**—O'Brien Co., 22 concrete culverts to H. J. Jenson, Thompson, $11,977, 3 pony and 1 high truss, to Iowa Bridge Co., 1263 East 19th St., Des Moines, $28,490. five I-beam spans, to Graves Bros., Melvin, $9,600. Noted Mar. 20.

**Ia., Webster City**—Bd. Supervs. Hamilton Co., 3 concrete culverts, 2 pony truss, two I-beam and 2 slab spans, to A. Swanson Co., Webster City, $34,375.

**Minn., St. James** — See "Streets and Roads."

**S. D., Chamberlain** — State Hy. Dept., Pierre, 1,472 ft. high truss bridge over Missouri River, here, to Missouri Valley Bridge & Iron Co., Leavenworth, Kan., $346,234. Noted Mar. 13.

**Mont., Polson**—See "Streets and Roads."

# Dams

PROPOSED WORK

**Mich., French Landing** (mail Romulus) —Detroit Edison Co., 2000 2nd Blvd., Detroit, having plans prepared concrete dam 35 ft. high, flanked on either end with earthen embankments, concrete power house 1,000 kw., wasteways, etc. Private plans.

# Railways

CONTRACTS AWARDED

**Ontario** — Canadian Pacific Ry., Windsor Sta., Montreal, Que., will do following work in province, 44 mi. rock ballasting in Sudbury Div., 22 mi. rock ballast in Toronto-Sudbury Div., replacement of 137 mi. of 85 lb. steel with 102 lb. steel, in Northbay, Cartier, Sudbury and Toronto, by day labor. $2,000,000. J. M. Fairbairn, ch. engr.

**Ontario**—Temiskaming & Northern Ontario Ry., North Bay, will reballast (gravel) and relay 40 mi. 80 lb. rails, by day labor. $750,000. S. B. Clement, ch. engr.

# Excavation, Drainage, Irrigation

PROPOSED WORK

**Minn., Glencoe** — McLead, Wright and Meeker Counties had plans prepared Judicial Ditch 14. $20,000. C. Madsen, Hutchinson, engr.

**Ark., Osceola**—Comrs. Sub. Dist. 1, of D.D. 12, plans to issue $100,000 bonds, for drainage work. Ayres & Miller, McCall Bldg., Memphis, Tenn., engrs.

**Tex., Corsicana**—Powell Salt Water Co. plans ditching and dredging Cedar and Crabb Creeks, Powell Oil field to Trinity River. $25,000. Private plans.

**Calif., Los Angeles**—Los Angeles Harbor Comn. plans dredging Slip 1, fronting Pier A. $80,000. C. J. Colden, pres.

**Canada** — Dept. Railways & Canals, Parliament Bldgs., Ottawa, Ont., plans to expend $50,000 on Soulanges Canal, $125,000 on Welland Canal and $210,000 on Trent Canal. Work includes dredging, concrete work, piling, repairs, etc. W. A. Bowden, Parliament Bldg., Ottawa, ch. engr.

BIDS DESIRED

**N. C., Washington**—May 7, by Bd. Drainage Comrs. South Creek D. D. at office Small, McLean & Rodman, Washington, deepening and widening South Creek to give width of 30 ft. and depth of 7 ft., involving 52.3 acres cleaning, 132,500 cu. yd. excav., constructing 3 bridges and leveling canal bank. $65,000. R. L. Bonner, Aurora, chn.

**Fla., Tampa**—May 14, by W. J. McDonald, treas. Dover D. D., Room 32, Giddens Bldg., draining 11,339.95 acres, 630,000 cu.yd. excav. $189,000. McElroy Eng. Bldg., Giddens Bldg., engrs. Noted Nov. 29.

**Wyo., Riverton**—May 16, by Bd. Comrs. Delfelder D. D., at office of O. N. Gibson, attorney, 1st State Bank Bldg., 7.7 mi. open ditch drains, 228,000 cu.yd. excav., etc. H. F. Bell, Cody, engr.

**Wyo., Riverton**—May 16, by Bd. Comrs. Big Bend D. D., at office of O. N. Gilson, attorney, 1st State Bank Bldg., 3.7 mi. tile drains, incl. 13,938 lin.ft. 10 in., 1,750 lin.ft. 12 in. and 3,778 lin.ft. 15 in. tile; 4.7 mi. open ditch drains, 132,000 cu.yd. excav., etc. H. F. Bell, Cody, engr.

**Wash., Vancouver**—May 10, by Shillapoo-Vancouver Lake D. D., for drainage system. $520,000. W. A. Schwartz, Vancouver, engr. Noted Dec. 6.

**Calif., Oroville** — May 10, by W. J. Monro, secy. Oroville-Wyandotte Irrigation Dist., 21,800 lin.ft. ditch.

BIDS RECEIVED

**N. Y., Buffalo**—Dept. Pub. Wks., Apr. 18, from Great Lakes Dredge & Dock Co., D. S. Morgan Bldg., dredging and refilling trench across City Ship Canal at Michigan St. for 16 in. submerged pipe $8,000, dredging and refilling trench across Buffalo River for 16 in. submerged pipe $11,950, laying 16 in. submerged pipe across City Ship Canal and Buffalo River $9,500. Noted Apr. 17.

**Neb., Norfolk**—Sanitary Dist. at office J. C. Stitt, clk., Norfolk Natl. Bank Bldg., constructing cut off B of North Fork of Elkhorn River, 80,000 cu.yd. dragline excav., from R. S. Morrow & Son, 430 Brandeis Theatre Bldg., Omaha, $0.124. Noted Apr. 3.

CONTRACTS AWARDED

**New York**—R. K. Fuller, comr. Canals & Waterways, Albany, dredging canal from Waterford west to Schenectady, to W. J. Morrissey, Saratoga Springs, $167,045.

**Ark., Newport** — Brown Creek D.D., 95,800 cu.yd. excav., 6,700 BF No. 2 timber bridging, 36 cu.yd. concrete in abutments, 3,000 lb. structural steel, to Miller & Harris Bros., Constr. Co., Shelby, Miss., $15,000.

# Streets and Roads

PROPOSED WORK

**Maine**—State Hy. Comn., Augusta, plans paving State Highway S in Gray, 3,155 cu. yd. bituminous macadam, 13,703 cu.yd. earth excav.; State Highways in New Gloucester, 2,564 cu.yd. bituminous macadam, 7,249 cu.yd. earth excav.; State Highway K spur, in Houlton, 1,483 cu.yd. bituminous macadam, 3,895 cu.yd. earth excav., 3,141 cu.yd. rock excav.; State Highway F in Turner, 3,850 cu.yd. bituminous macadam, 18,900 cu.yd. earth excav.; State Highway B in Bridgton, 1,300 cu.yd. bituminous macadam, 2,550 cu.yd. earth excav.; State Highway J-K, in Orneville and LaGrange, 7,500 cu.yd. gravel surfacing, 9,000 cu.yd. earth and 500 cu.yd. rock excav. P. D. Sargent, ch. engr.

**N. Y., Amsterdam** — Fulton Co. plans graveling 22 mi. roads, 12 ft., $50,140.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids grading, curbing and laying sidewalks on Merritt St., Lewis and 55th Aves. Will readvertise. Noted Apr. 3.

**N. J., Alpine**—Bergen Co. (Hackensack) plans concrete paving 1 mi. road, here. R. P. McClave, Hackensack, engr.

**N. J., New Brunswick**—Plans paving Richardson, Ray, Courtlandt, Prosper, Baldwin, Ward, Howard, Talmadge and Wirt Sts. $153,000. A. Atkinson, New Brunswick, engr.

**N. J., Newton**—Sussex Co. plans improving Sussex-Port Jervis Rd. $800,000. State aid. H. Snook, Newton, co. engr.

**W. Va., Elkins**—City Comrs. had plans prepared paving Central St., concrete. $31,334. P. B. Bloomfield, Elkins, engr.

**W. Va., Summersville** — Nicholas Co., Wilderness Dist. voted $90,000 bonds for highway improvements. Noted Mar. 6.

**Ga., Carmilla**—Mitchell Co. sold $100,000 bonds for roads.

**Fla., Panama City** — Bay Co. selling $140,000 bonds for roads.

**Fla., Tavares**—Having plans prepared paving various streets, 26 and 30 ft., asphalt. $200,000. A. Cobb, Tavares, engr.

**Tenn., Maryville**—Blount Co. plans election $300,000 bonds, macadamizing 35 mi. roads.

**Tenn., Nashville**—Bd. Pub. Wks. soon takes bids paving 10 streets, asphalt, bituminous concrete or granite block. $295,000. W. W. Southgate, city engr.

**O., Barberton** — Plans paving 7th St., brick, $30,000; improving Norton Ave., $28,000, also ½ mi. 4th St., 30 ft., $30,000.

**O., Canton**—Stark Co. plans improving 4.5 mi. Suffield Rd., 18 ft., brick. $125,000. A. Wise, Court House, engr.

**O., Cincinnati**—Plans rebuilding 1,500 ft. Reid Ave., 24 ft., 3,000 lin.ft. concrete curb and concrete sidewalks, 4,000 sq.yd. concrete, 1,410 ft. 12 and 18 in. sewer pipe, $25,400. F. Krug, City Hall, engr.

**O., Cincinnati**—Hamilton Co. plans rebuilding 14,690 ft. Eight Mile Rd., 25,000 cu.yd. grading, 70,000 gal. Grade 1 tar, 9,300 cu.yd. stone, etc. $68,640. E. A. Gast, Court House, engr.

**O., Columbus** — Making plans grading, laying necessary water services, sewer connections and paving 1,606 ft. Ann St. and Longman Ave., 24 ft., brick $25,199, asphalt $20,067; 2,092 ft. 1st Ave., 34 ft., asphalt $19,951; 619 ft. alley west of Pennsylvania Ave., 20 ft., brick $4,877, concrete $4,315. R. H. Simpson, city engr.

**O., Dayton**—Plans paving Harvard Blvd. wood block or asphalt on concrete, $24,375, Grand Ave., asphalt or concrete, $7,125. J. F. Hale, city engr.

**O., Dayton**—Montgomery Co. plans paving 8,000 sq.yd. East 3rd St., macadam or Kentucky rock asphalt on bituminous macadam. $25,000. W. O. Pease, co. surv.

**O., East Liverpool**—Bd. Control takes bids in about 30 days resurfacing 0.7 mi. East 2nd and West 8th Sts., 30 ft., $70,000; paving ½ mi. Orchard Grove Ave., 30 ft., $35,000, ¾ mi. Monroe St. and McKinnon Ave., 30 ft., both brick, $60,000; resurfacing or relaying brick on ¼ mi. Bway., 40 ft., $30,000; repaving ¼ mi. Jefferson St., 30 ft., asphalt and brick, $25,000-$30,000. J. A. George, East Liverpool, engr.

**O., Garfield Heights** (Cleveland P. O.)—Takes bids in July paving 18 or 20 streets, brick or asphalt, to exceed $100,000. R. F. Munz, Town Hall, engr.

**O., Piqua**—Plans repaving 2,400 ft. Main St., 40 ft., brick or asphalt on present concrete. $50,000. A. Schroeder, city engr.

**O., St. Clairsville**—Plans resurfacing ½ mi. Main St., 40 ft., asphalt. $50,000. B. Nikolaus, clk.

**O., Youngstown** — Mahoning Co. plans reconstructing 2.1 mi. Bell-Wick Rd., present waterbound road to be widened to 16 ft., incl. additional base and 3 in. penetrated bituminous top. $40,000.

**Ind., Anderson** — Madison Co. having plans prepared hard surfacing R. W. Webb Rd., 14,436 sq.yd. concrete. $39,531. A. H. Doyle, Anderson, engr.

**Ind., Evansville**—Comrs. Vanderburg Co. had plans prepared and soon takes bids 9 mi. Outer Cynthiana Rd. to Posey Co. line, concrete, 18 ft. $30,000. R. W. Meisenger, co. engr.

**Ind., Evansville**—Comrs. Vanderburg Co. will resurface 10 mi. roads, oil penetration. Work will probably be done by day labor. M. W. Foster, co. rd. supt.

**Ind., Rushville**—Rushville Co. plans paving 17,342 sq.yd. James Shannahan Rd., 18 ft., bituminous macadam. $27,761. F. L. Catt, Rushville, engr.

**Ind., Terre Haute**—Vigo Co. plans paving Fromme Rd., 22,440 sq.yd. concrete on concrete, $60,483; White Rd., 24,456 sq.yd. concrete, $67,364; Bickel Rd., 10,560 sq. yd. concrete, $27,219. R. E. Givens, Terre Haute, engr.

**Mich., Ann Arbor**—Having plans prepared 40,562 lin.ft. concrete curb and gutter, and 17,944 sq.yd. pavements, in Dist. 56 and Dists. 62 to 70 inclusive, 3 in. sheet asphalt, vitr. brick, plain or rein.-con., or vibrolithic concrete on concrete. F. J. Rentschler, pres. Bd. Pub. Wks.

**Mich., Detroit**—Plans prepared grading and paving with 3½ in. sheet asphalt on 8 in. concrete, 5,200 sq.yd. Stoepel Ave. $31,270, 2,520 sq.yd. Lawton Ave. $15,120, 2,700 sq.yd. Cortland St. $16,010, 11,700 sq.yd. Tuller St. $70,200, 5,990 sq.yd. Turner St. $35,930, 6,700 sq.yd. Livernois Ave. Sect. 1, $40,030, 15,400 sq.yd. Livernois Ave. Sect. 2, $92,750, 4,040 sq.yd. Colton Ave. $24,270. G. Jerome, city engr.

**Wis., Ladysmith**—Making plans rein.-con. paving 8,512 sq.yd. various streets. $30,000. H. E. French, City Hall, Baraboo, engr.

**Ia., Storm Lake**—Rejected bids 16,500 yd. paving and 13,600 lin.ft. curbing. Will

Streets and Roads (Continued)

take new bids later. R. A. Whalen, clk. Noted Mar. 27.

**Kan., Independence** — Montgomery Co. soon takes bids grading and surfacing 2.029 mi. Federal Aid Project 121 Sect. H, 18 ft., bituminous macadam. H. K. Hibbard, co. engr.

**Kan., Kansas City**—Wyandotte Co. soon takes new bids fine grading and surfacing 0.873 mi. Federal Aid Project 102, 9,219 sq.yd. 1 course concrete, 1,310 cu.yd. excav. O. K. Williams, co. engr. Noted Feb. 28.

**Kan., Marion**—Marion Co. plans grading, etc., 4.269 mi. Federal Aid Project 216, Sect. A, 28 ft. R. K. Walters, co. engr.

**Kan., Minneapolis** — Ottawa Co. soon takes bids grading 7.02 mi. Federal Aid Project 185, Sect. A, 28 ft. L. R. Miller, co. engr.

**Kan., Olathe**—Johnson Co. had plans prepared improving 2.866 mi. highway, Federal Aid Project 238, Sect. A, 18 ft., brick, concrete, bituminous concrete or bituminous macadam. E. C. L. Wagner, 608 Kemper Bldg., Kansas City, Mo., engr.

**Kan., Wichita**—Sedgwick Co. had plans prepared grading and surfacing 1.261 mi., Federal Aid Project 130, Sect. C, 18 ft. M. Roseberry, co. engr.

**Neb., Broken Bow** — Custer Co. plans grading 6 mi. Federal Aid Project 127 A, 96,600 cu.yd. excav., two 24 ft. and one 22 ft. I beam bridges. $150,000.

**Neb., Lincoln**—Lancaster Co. plans grading and gravel surfacing 4.358 mi. Federal Aid Project 225, from here to Woodlawn, 29,000 cu.yd. excav., 54,000 sq.yd. 3 in. gravel. $37,000.

**Neb., Omaha**—Douglas Co. plans paving 20 mi. road from Milford to Elk Horn River, brick or concrete. $800,000 or less. L. E. Adams, Court House, engr.

**Neb., Rushville** — Sheridan Co. plans grading 14.01 mi. Federal Aid Project 223, Sheridan Co., 110,500 cu.yd. excav., and one 16 ft. I beam bridge. $75,000.

**South Dakota**—State Hy. Dept., Pierre, plans 14 mi. Federal Aid Project 184 A, Spink Co., and 14.1 mi. Federal Aid Project 183 Beadle-Spink Counties. Letting probably in May. F. D. Hudgins, ch. engr

**Missouri** — State Hy. Dept., Jefferson City, plans paving 1.25 mi. road from Washington east, 18 ft., Franklin Co., rock asphalt or concrete. B. H. Piepmeier, state highway engr.

**Missouri** — State Hy. Dept., Jefferson City, plans concrete paving 97,977 sq.yd. roads in Callaway Co., also 2.374 mi. Fenton-Festus Rd., 18 ft., St. Louis Co.; graveling 9.056 mi. roads, 12 ft., in Cedar, Phelps and Cape Girardeau Counties, and 3.622 mi. roads, 16 ft., in St. Genevieve and New Madrid Counties; grading 34.163 mi. roads in Callaway, Texas, Ripley, Barton, Webster and St. Louis Counties. B. H. Piepmeier, state highway engr.

**Mo., Centralia**—Making surveys paving business district, around city square and extending paving well into residence districts. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, consult. engrs.

**Mo., Hannibal**—Soon takes bids grading, concrete curbing, guttering and 7 in. concrete surfacing 7,510 ft. Mark Twain and Paris Sts. $75,546. W. R. Gettler, City Hall, engr. Noted July 12.

**Mo., Moberly**—Plans resurfacing, repairing and widening approximately 40 blocks. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, consult. engrs. Noted Nov. 22.

**Ark., Siloam Springs**—Making preliminary plans grading, surfacing with rein.-con., asphaltic concrete or sheet asphalt on concrete, concrete curbs and gutters on 42 blocks, 26 and 28 ft.

**Tex., Batesville** — Zavalla Co. election May 17, $125,000 bonds, highway in Precinct 1 from Frio Co. line to La Pryor via Batesville. Address N. P. Hunt, co. judge.

**Tex., Colorado** — Mitchell Co. election May 27, $325,000 bonds, hard surfacing State Highway 1. Will be supplemented by $625,000 State and Federal aid if election carries. F. F. Du Bose, co. engr. Noted Apr. 27.

**Tex., Dallas**—Making plans correction street alignment, paving, wrecking, etc., Akard St. from Commerce to Young Sts., 60 ft. minimum width planned. $500,000. E. A. Kingsley, city engr.

**Tex., Kountze**—Election soon $500,000 bonds, hard surfacing 28 mi. highways, 18 ft. G. C. Brown, Kountze, engr.

**Okla., Chandler** — Lincoln Co. election June 10, $990,000 bonds, grading and paving 50 mi. Ozark Trail, etc., 600,000 sq.yd. concrete, 275,000 cu.yd. earth excav. J. M. Page, Capitol Bldg., Oklahoma City, engr.

**Okla., Cleveland**—Having plans prepared grading and paving 9 blocks North Main St., 12,600 sq.yd. concrete, 5,400 lin.ft. curbing, 4,000 cu.yd. earth excav. $43,000. Wood & Fellows, Stillwater, engrs.

**Okla., Enid**—Garfield Co. election May 20, $1,000,000 bonds, grading and paving highways, 600,000 sq.yd. concrete. State Highway Dept., Oklahoma City, engrs.

**Okla., Okmulgee**—Okmulgee Co. election May 19, $400,000 bonds, 22 mi. concrete and 8½ mi. gravel roads. H. C. King, Okmulgee, engr.

**Ore., Albany**—Linn Co. making plans 15 market roads, total length 48 to 50 mi. C. H. Leonard, Albany, engr.

**California**—State Highway Comn., Sacramento, having plans prepared 8 mi. heavy grading near Colfax, Placer Co.; 4 mi. grading near Summit, Nevada and Placer Counties. R. M. Morton, state highway engr.

**Calif., Oakland**—Had plans prepared improving portion East 12th St., 285,411 sq. ft. grading, 7,831 ft. concrete curb, 8,400 sq.ft. concrete gutter, 212,482 sq.ft. 6 in. concrete with 2 in. Warrenite-bitulithic surface. W. W. Harmon, city engr.

**Calif., Salinas**—Had plans prepared improving San Luis St., 82,558 sq.ft. grading, 82,558 sq.ft. 5 in. concrete, 3,667 lin.ft. concrete curbs, culverts, etc. H. Cozzens, city engr.

**Calif., San Bernardino**—San Bernardino Co. had plans prepared improving 10,689 ft. Riverside Dr., 16 ft., grading, 6 in. crushed rock with rock screenings and asphaltic oil surface, earth shoulders and embankments, 2 ft. on each side. E. T. Ham, co. surv.

**Calif., San Diego** — Plans improving Columbia and Maple Sts., 72,028 sq.ft. 3 in. bituminous with 2 in. asphaltic concrete top, 184,308 sq.ft. 2½ in. bituminous and 1½ in. asphaltic concrete top, 11,949 sq.ft. concrete sidewalk, 2,710 lin.ft. concrete curb, etc. F. A. Rhodes, city engr.

**Calif., Santa Ana**—Had plans prepared improving 17th St., 152,569 sq.ft. 7 in. concrete, etc. W. G. Knox, city engr.

**Calif., South Pasadena** (Branch of Pasadena)—Plans paving El Centro St. between Pasadena and Brent Sts., etc. To exceed $55,000. R. V. Orbison, city mgr.

**Ont., Guelph**—Soon takes bids 24,000 sq. yd. concrete pavements on various streets. $80,000. H. S. Nicklin, city engr.

**Ont., Leamington**—Takes bids early in May, concrete pavements on Setterington Ave. and Mill St. Prices wanted on materials. $36,000. R. M. Selkirk, City Hall, engr.

**Ont., Riverside**—Having plans prepared 16,000 sq.yd. asphalt pavement on concrete, 11,000 lin.ft. concrete curb and gutter. $80,000. A. Smith city engr.

**Ont., Toronto** — Having plans prepared 75,000 sq.yd. asphalt pavements on concrete, on following: Fleet St. $263,715, Gloucester St. $24,918, and Wabash Ave. $31,696. R. C. Harris, city engr.

## BIDS DESIRED

**Vermont**—Dept. Highways, Montpelier, receiving bids and opens same about May 8, improving 1.26 mi. Crystal Lake Rd., Sutton, Caledonia Co., Federal Aid Project 55 A, 2,940 cu.yd. gravel surfacing, 12,300 cu.yd. earth and 1,000 cu.yd. rock excav. T. W. Dix, ch. engr. Noted Feb. 21.

**Vermont**—May 8, at office of T. W. Dix, ch. engr. Dept. Highways, Montpelier, constructing 2.7 mi. highway South Burlington; 1.26 mi. gravel road, Sutton; 160 ft. steel span bridge, North Pownal; 80 ft. steel span bridge and approaches at Middlebury; 7 mi. concrete road, Berlin; adv. E. N.-R. May 1. Noted Apr. 24 under Bridges.

**Vt., Barre** — May 8, by City Council, paving 1 mi. Barre-Montpelier Rd., 18 ft., 2,200 cu.yd. rein.-con., 6,000 cu.yd. earth excav. S. L. Ruggles, city engr. Project will be let in conjunction with Federal Aid Project 56 A.

**N. Y., Auburn**—May 13, by J. P. Jaeckel, city mgr., City Hall, improving Aurelius, Clark, Franklin, Lewis, Pulsifer and Westlake Aves. M. F. Dullea, city engr.; adv. E. N.-R. May 1.

**N. Y., Brooklyn**—May 7, by E. Riegelman, boro pres., Boro Hall, asphalt paving Lott Ave., 48th, 64th and 81st St.; grading, curbing and flagging New York and 16th Aves., 71st, 72nd, 46th and 64th Sts., Rockaway Ave. from Glenwood to Farragut Rds., Rockaway Ave. from Conklin to Flatlands Aves.; grading, curbing, flagging and paving (2nd hand granite) Rockaway Ave. from Farragut Rd. to Flatlands Ave.

**N. Y., Long Island City**—May 5, by M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading, curbing, laying sidewalks, etc., on Merritt St., Lewis, 55th (Lewis), and 89th (Ridgewood) Aves.; grading sidewalks space and laying sidewalks, etc., on 101st St.; sheet asphalt paving Hancock St.; grading 4th Ave.; grading and curbing 4th Ave.; grading sidewalk and gutter spaces, curbing, laying sidewalks, etc., on easterly side of 59th St. (Holmes Ave.); grading for width of 40 ft. from southerly house line, curbing, laying sidewalks and sheet asphalt paving on concrete, Edgemere Ave. (Rockaway Beach Blvd.), etc.

**N. Y., New York**—May 6, by H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, laying sidewalks, crosswalks, asphalt paving etc., East 176th and Herschell Sts., Matthews, Andrews, Faraday, Story and Popham Aves.; sheet asphalt paving West 195th St. from Sedgwick to University Aves.; bituminous concrete paving, etc., West 197th and East 169th Sts., University, Claflin and Anderson Aves., West 195th St. from University to Reservoir Aves.; grading for width of 40 ft. centrally located, etc., Watson Ave.

**N. J., Freehold**—May 21, by Bd. Freeholders Monmouth Co., reconstructing 2.153 mi. Sect. 2, Freehold-Smithburg Rd. 24, concrete. G. F. Randolph, 60 Broad St., Red Bank, civil engr.; adv. E. N.-R. May 1.

**N. J., Roselle Park** (Roselle, P. O.)—May 9, by Mayor and Boro Council, rein.-con. paving and bluestone curbing Lehigh Pl., Webster and Sherman Aves. J. W. Higgins, 595 Chestnut St., boro engr.; adv. E. N.-R. May 1.

**Pennsylvania**—May 12, by State Hy. Dept., Harrisburg, 33 mi. road in 12 projects and May 13, for 41 mi. road in 12 projects; adv. E. N.-R. May 1.

**Pennsylvania**—May 19, by State Hy. Dept., Harrisburg, 59 mi. road in 13 projects in 11 counties; adv. E. N.-R. May 1.

**Pa., Martinsburg** — May 16, by Boro Council, concrete paving 3,219 lin.ft. Allegheny and Market Sts., 26 and 36 ft. F. M. Hunter, 201 Logan Ave., Llyswen, engr.

**Pa., Southmont**—May 12, by Boro Council, grading and paving with one course rein-con., also sanitary and storm sewers in 4,000 ft. Gardner, Leila and Orchard Sts. $40,000. S. E. Dickey & Co., 809 Johnstown Trust Bldg., Johnstown, engrs.

**Pa., Warren**—May 5, by Street Com. of Town Council, paving and curbing 1,590 ft. Crescent Park; adv. E. N.-R. May 1.

**Maryland**—May 13, by State Rds. Comn., Baltimore, 7 sections highway in Allegany, Prince George, Baltimore, Harford, Caroline and Wicomico Co., Contrs. A-26, P-50, P-45, B-62, H-37, Co-34 and Wi-25. J. N. Mackall, chn.; adv. E. N.-R. May 1.

**Md., Baltimore**—May 7, by Bd. Awards, grading, curbing and paving with sheet asphalt on concrete 22,200 sq.yd. Contr. 256-OANA. R. K. Compton, 214 East Lexington St., chn. paving comn.

**Virginia**—May 13, at offices State Hy. Comn., Richmond, surfacing with bituminous macadam 3 mi. Project F-148-G, Bedford Co., 3.6 mi. Project F-265-B, Buchanan Co., 5 mi. Project F-294-B; surfacing with sheet asphalt on concrete, alternate on 8 in.-6 in.-8 in. concrete and 4 in. gravel sub-base, 4 in. asphaltic concrete base and 1½ in. sheet asphalt top, 2.3 mi. Project F-260-B, and 1.4 mi. Project F-358-A, both Hanover Co.; graveling 3.1 mi. Project F-310-B, Brunswick Co., 8.2 mi. Project F-333, Nansemond Co.; top soil surfacing 6.6 mi. Project S-323-B, Charlotte Co.; 1½ in. binder 1½ in. sheet asphalt topping 2.2 mi. Project F-368. No special design bridges. C. S. Mullen, ch. engr.; adv. E. N.-R. May 1.

**W. Va., Clarksburg**—May 5, by Harrison Co., grading 1.5 mi. Ten Mile Creek-Marshville Rd., Ten Mile Dist., 1 mi. Clarksburg-Weston Pike, Grant Dist.; 1.5 mi. road from Arthos Rhodes residence up Kincheloe Creek, Union Dist.; bridge over Ten Mile Creek. C. N. Parrish, clk. Noted Mar. 27.

**W. Va., Fairmont**—May 14, by Marion Co., improving following roads in Paw Paw Dist.: 1.18 mi. Rivesville-Parker Run Rd., 2 mi. Rivesville-Baxter Rd., 2.5 mi. Baxter-Hoodsville Rd., 2.5 mi. Hoodsville-Shamans Run Rd., 2.5 mi. Baxter-Frant Town Rd., 1 mi. Wheeling-Fairmont Turnpike up Robinsons Run, 1.13 mi. Fairview-Bennefield Fork Rd. and 1.3 mi. Fairmont-Wheeling Turnpike. L. N. Satterfield, clk. Noted Mar. 20.

Streets and Roads (Continued)

**W. Va., Fairmont**—May 20, by Marion Co. grading, draining and paving 11 highway, Lincoln Dist. B. H. Palmer, county rd. engr.; adv. E. N.-R. May 1.

**W. Va., Fairmont**—May 22, by Marion Co., 26 mi. grading, draining and paving, Mannington Dist. B. H. Palmer, co. engr.

**S. C., Saluda**—May 6, at office Saluda Co. Hy. Comn., 13.223 mi. State Route 392, 68,014 cu.yd. common excav., 41,403 top soiling, etc.

**Fla., Bradentown** — May 5, by Comrs. Manatee Co., surfacing and repairing 8½ mi. in Palmetto Special Rd. and Bridge Dist., and 13 mi. in Gulf Shore Special Rd. and Bridge Dist., asphaltic oil and slag. R. H. Roesch, clk.

**Fla., Haines City**—May 6, by Mayor and Council, improving various streets, 43,700 yd. paving. Separate bids will be received on curbs, gutters, etc. E. V. Camp & associates, Hill Bldg., Jacksonville, engrs.

**Fla., Starke**—May 6, by Bradford Co., constructing 7.6 mi. highway, Rd. 14 to New River, $30,000; 6.7 mi. Rds. 19 and 20, $26,000; 7.4 mi. Rds. 9, 18 and 21, $30,000; 9.6 mi. Rds. 14, 16, 17 and 22, $38,000. E. R. Neff, Starke, engr.

**Fla., Tampa**—See "Unclassified."

**Mississippi**—May 6, by Carroll Co. Bd. Supervs., grading and gravel surfacing 20 mi. Greenwood Money-Tallahatchie Co. Rd., 18 ft., $200,000. Abbott Eng. Co., Greenwood, engrs.

**Miss., Greenwood** — May 6, by Bd. Supervs., La Flore Co., Court House, grading and gravel surfacing 14.5 mi. Greenwood-Money-Tallahatchie Highway, 18 ft. Abbott Eng. Co., Greenwood, engrs.

**Miss., Port Gibson** — May 5, by Bd. Supervs., Claiborne, grading and graveling 2.14 mi. Ruston Colon Rd., 24 ft. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

**Louisiana**—May 13, by State Hy. Dept., Baton Rouge, 9.4 mi. State Project 346, Sect. C 2, New Orleans-Fort Jackson Highway, Plaquemine Parish. J. M. Fourmy, ch. engr.

**Louisiana**—May 15, by State Hy. Dept., Baton Rouge, 4.69 mi. State Project 149, DeRiffer-Texas Highway, Beauregard Parish, also furnishing gravel for project. J. M. Fourmy, ch. engr.

**Tennessee**—May 9, by State Dept. Hys. & Pub. Wks., Nashville, grading and surfacing with bituminous macadam 5.35 mi. Hartsville-Sumner Co. Rd., 14 ft. State Aid Project 166, Trousdale Co., 5.35 mi. Cookeville-Overton Co. Rd., 16 ft., State Aid Project 123, Putman Co.; with macadam penetration or 2 in. bituminous concrete, 8-in. macadam base 12.62 mi. McMinnville-Rock Island Rd., 18 ft., Federal Aid Project 202, Warren Co.; grading 5.75 mi. Bells-Madison Co. Rd., 16 ft., State Aid Project 165, Crockett Co., 5.23 mi. Lenoir-Knox Co. Rd., 18 ft., Federal Aid Project 207, Loudon Co., 9.52 mi. Davidson Co. line-Dickson Co. line Rd., 18 ft., Federal Aid Project 205, Cheatham Co., 4.74 mi. Haywood Co. line-Fayette Co. line Rd., 18 ft., Federal Aid Project 204, Tipton Co.; gravel surfacing 9.8 mi. Newport-North Carolina State line Rd., 16 ft., State and Federal Aid Project 23, Cocke Co.; concrete surfacing 5 mi. Manchester-Beech Grove Rd., 16 ft., State Aid Project 151, Coffee Co. J. G. Creveling, highway comr. Noted Apr. 17.

**Kentucky**—May 20, by State Hy. Dept., Frankfort, shaping and surfacing with waterbound macadam 13.2 mi. London-Corbin Rd., 12 ft., State Project 5, Sect. O, Laurel Co., 15,000 cu.yd. earth, and 3,000 cu.yd. rock excav.; 7.05 mi. Mount Vernon-Roundstone Rd., 12 ft., State Project 5, Sect. L, Rockcastle Co. J. S. Boggs, state highway comr.

**Ohio**—May 13 (extended date), by Dept. Highways & Pub. Wks., Columbus, grading, bridging and paving 8.339 mi. roads in Trumbull, Union and Franklin Counties, also concrete widening 1.05 mi. road in Franklin Co. A. V. Donaheys, dir. highways. Noted Apr. 24.

**O., Canton**—May 7, by Stark Co. concrete curbing and brick paving 4.25 mi. South Canton-Massillon Rd., 16 ft., $125,000; brick paving ¾ mi. Canal Fulton Rd., 20 ft., $30,000, 1 mi. Dueber Ave., 16 ft., $40,000, and 1 mi. Shepler Rd., 20 ft., $35,000. A. M. Wise, co. engr. Noted Mar. 20.

**O., Cleveland**—May 7, by Cuyahoga Co. paving Minor Rd. 2. $61,992. F. Lander, Court House, engr.

**Indiana** — May 6, by State Highway Comn., Indianapolis, bituminous surface treating 5.1 mi. Rd. 12, Sect. M, 18 ft., and surface treating 7.3 mi. Rd. 1, Sect. L, Marion Co. C. Gray, state highway engr.

**Ind., Greencastle** — May 5, by Comrs. Putnam Co., paving with crushed stone, 15,337 ft. C. H. Crosby Rd., 24 ft. $54,156. W. P. Koehler, Greencastle, engr.

**Ind., Rockville**—May 6, by Comrs Parke Co., concrete paving 16,232 sq.yd. Rosedale Rd. $47,584. L. Mitchell, Rockville, engr.

**Ind., Wabash** — May 6, by Comrs. Wabash Co., concrete paving 36,156 sq.yd. Lee Carr Rd., $94,005; 19,002 sq.yd. Albert Bechtold Rd., $49,412; 39,720 sq.yd. W. D. Huffman Rd., $103,379; 32,520 sq.yd. Thomas Bechtold Rd., $74,557. H. Hartmen, Wabash, engr.

**Michigan**—May 8, by State Hy. Dept. at office Comrs. Genesee Co., Flint, grading and surfacing 5.97 mi. Federal Aid Rd. 115, Sect. B, Genesee Co., 28,896 cu.yd. excav., 70,133 sq.yd. asphalt, concrete or bituminous concrete, also 6.357 mi. Federal Aid Rd. 115, Sect. A, Genesee Co., 53,342 cu.yd. excav., 75,182 sq.yd. asphalt or concrete. G. C. Dillman, ch. engr.

**Michigan**—May 9, by State Hy. Dept., at office Comrs. Delta Co., Escanaba, grading and surfacing 5.721 mi. State Trunk Line Rd. 35-3, Delta Co., 42,640 sq.yd. bituminous macadam. G. C. Dillman, ch. engr.

**Michigan**—May 9, by State Hy. Dept. at office Comrs. Muskegon, Muskegon, grading and surfacing 2.35 mi. State Trunk Line Rd. 24-26, Muskegon Co., 7,980 cu. yd. excav., 24,811 sq.yd. asphalt, concrete or bituminous concrete. G. C. Dillman, ch. engr.

**Michigan**—May 12, by State Hy. Dept. at office Comrs. Buren Co., Paw Paw, grading and surfacing 3.295 mi. State Trunk Line Rd. 40-1, Sect. A, Van Buren Co., 21,027 cu.yd. excav., 34,800 sq.yd. asphalt or concrete. G. C. Dillman, ch. engr.

**Michigan**—May 13, by State Highway Dept. at office Comrs. Houghton Co., Hancock, grading and surfacing 6.767 mi. State Trunk Line Rd. 28-8, Sect. C, Houghton Co., 52,079 cu.yd. excav., 18,484 tons stamp sand, 10,200 cu.yd. clay, or 63,516 sq.yd. gravel; 3.63 mi. State Trunk Line Rd. 28-8, Sect. B, Houghton Co., 46,542 cu.yd. excav., 9,918 tons stamp sand or 34,082 sq.yd. gravel. G. C. Dillman, ch. engr.

**Wis., Fond du Lac** — May 6, by J. F. Hohensee, city clk., paving 4th, Bank, Oak, Morris, Bannister, South Bell, Everett, Fond du Lac, Marr and Linden Sts., rein.-con., asphaltic concrete, vibrolithic or sheet asphalt. G. H. Stanchfield, City Hall, engr.

**Minn., Minneapolis**—May 6, by J. A. Ridgway, secy. Bd. Park Comrs., City Hall, colored concrete curbs on 32,000 lin. ft. Lake Nakomis, 36,000 lin.ft. Lake Dist., 25,000 lin.ft. on Minnehaha Parkway; 7,300 sq.yd. colored walks in Lake Dist., 3,000 sq.yd. concrete tennis courts, Nicollet Field, 3,000 lin.ft. colored curb and gutter, 2,800 sq.yd. concrete tile walks, 5,000 sq. yd. colored concrete tennis courts in Powderhorn Lake Park.

**Kan., Olathe**—May 23, by Clerk, Johnson Co., grading and surfacing 2.866 mi. Federal Aid Project 238, Sect. A, 30,118 sq.yd. vitr. brick, concrete, bituminous concrete or bituminous macadam, 1,755 lin.ft. cobble gutter, 9,330 cu.yd. earth excav., 4,320 cu.yd. borrow, 27,307 lb. reinforcing. E. J. Terrill, co. engr.

**Kan., Wellington** — May 7, by A. E. Alexander, clk. Sumner Co., improving 2.335 mi. Belle Plaine Rd., Federal Aid Project 235, Sect. 9, 18 ft., concrete or brick.

**S. D., Onida**—May 6, by Comrs. Sully Co., grading 6 mi. Farmington Twp. Rd. and 7 mi. Rich Valley and Fairview Rds. A. Glessner, co. aud.

**N. D., Fargo**—May 8, by Cass Co., grading 13 mi. Federal Aid Project 213, 78,995 cu.yd. excav., 4,446 lin.ft. 12-30 in. corrugated metal or concrete pipe culverts, etc. $30,000. F. F. Doherty, co. aud.

**N. D., Mandan**—May 6, by L. Nichols, aud. Morton Co., 0.56 mi. Project 1000, 7,260 sq.yd. paving, etc. $25,000.

**N. D., Williston**—May 7, by F. A. Hoare, aud. Williams Co., grading 11.5 mi. road between Tioga (Williams Co.) and White Earth (Mountrail Co.), $35,000.

**Mo., Clayton**—May 7, by St. Louis Co., grading and surfacing approximately 4 mi. Missouri Bottom, Aubuchon and Mehl Ave. Rds., 18 ft., telford macadam. $25,000. R. Jablonsky, Court House, engr. Noted Apr. 10.

**Mo., Independence**—May 6, by L. F. Koehler, engr., Independence, repairing Grandview Rd., 37,178 lin.ft. ditching and shoulder work, 37,178 sq.yd. macadam, concrete or raw hide; also Hickman Mills-Lee Summit Rd., 43,570 lin.ft. ditching and shoulder work, 53,142 sq.yd. macadam, rock asphalt or raw hide, for Jackson Co.

**Ark., Springdale**—May 17, by secy. Bd. Comrs., improvements in Paving Dist. 1, 5,300 lin.ft. concrete guttering, 3,000 lin.ft. concrete curb, 13,000 sq.yd. 5 in. concrete base, 13,000 sq.yd. asphaltic concrete, alternate 6 in. plain and rein.-con., 4,000 cu. yd. excav. $40,000-$48,000. Ratliff & Bird, Fayetteville, engrs.

**Tex., Crowell**—May 9, by J. E. Kinsey, city treasurer, 2,500 ft. curbs and gutters and 11,000 sq.yd. paving, brick, sheet asphalt, plain concrete or asphaltic concrete, F. E. Devlin, 614 Bitting Bldg., Wichita, Kan., engr. Noted Apr. 10.

**Tex., Jacksboro**—May 23, by J. D. McComb, judge Jack Co., grading, etc., 16.94 mi. State Highway 24, Federal Aid Project 437, 25 ft. $109,043. G. R. Johnston, co. engr.

**Okla., Muskogee**—Taking bids 9,700 yds. of 6 in. plain concrete paving. $40,000. J. R. March, Muskogee, engr.

**Colorado**—May 9, by State Hy. Dept., Denver, cement concrete paving 26,950 sq. yd. Federal Aid Project 283-A, Larimer Co., alternate on bituminous, $87,930; gravel surfacing 28,450 sq.yd. Federal Aid Project 266-A, La Plata Co., $26,992. L. D. Blauvelt, State Office Bldg., Denver, highway engr.

**Ariz., Prescott**—May 7, by W. C. Lefebvre, state engr., c/o Bd. Supervs. Yavapai Co., Sect. A, White Spar-Congress Junction Highway, Federal Aid Project 72-A, 33,000 cu.yd. roadway excav., 110,000 cu.yd. borrow, 28,000 cu.yd. surfacing, 1,480 cu.yd. concrete, 106,000 lb. reinforcing, etc.

**Wash., Tacoma** — May 7, by Comrs. Pierce Co., grading and concrete paving Milton-Edgwood Highway, Veterans Dr. and Summer-Buckley Highway. $100,000. C. H. Votaw, Tacoma, engr.

**California**—May 19, by State Highway Comn., Sacramento, grading 5.2 mi. highway between South San Francisco and Bway. Sta., San Mateo Co.; surfacing 6.9 mi. highway 2 mi. east of Parkfield Junction and Coalings, Fresno Co., crushed gravel or stone. R. M. Morton, state highway engr.

**Quebec** — May 12, by J. L. Boulanger, deputy minister Dept. Rds., Quebec, graveling 21,070 ft. Joliette-St. Jacques Highway, Joliette Co.

### BIDS RECEIVED

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, from Cranford Co., 52 9th St., asphalt paving Bay 37th St. $6,387, Quentin Rd. $5,141, 56th St. $8,472, 78th St. $10,131, 81st St. $6,716; from Interstate Paving Co., grading, curbing and flagging East 7th St. $5,005; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving East 7th St. $10,896, Ave. M $3,225, curbing and asphalt paving East 9th St. $7,035, recurbing and asphalt paving East 35th St. $13,682; from Cleveland Trinidad Paving Co., Flushing, asphalt paving Elderts Lane $9,311, Hubbard Pl. $6,864; from F. C. Cohart, grading Shepherd Lane $8,797; from Grimm Contg. Co., 170 McKinley St., grading, curbing and flagging Shepherd Ave. $6,150; from Galco Contg. Co., grading, curbing and flagging 81st St., $3,072. Noted Apr. 17.

**Pa., Phila.**—G. H. Biles, dir. Pub. Wks., City Hall, paving and curbing Delaware Ave. between Porter St. and Oregon Ave., granite blocks, from Acchine & Canuso, $01 South 12th St., $166,431. Noted Apr. 3.

**Pa., Phila.** — Bureau Highways, Dept. Pub. Wks., City Hall, paving, etc., from Eastern Paving Co., 401 Colonial Trust Bldg., asphalt repaving Almond, Livingston, Mercer, Salmon and Tilton Sts., $10,747, redressed granite block repaving on Callowhill St. $31,611; from Barber Asphalt Paving Co., 239 North 30th St., asphalt repaving Marlborough St. $7,926, Victoria and 23rd Sts. $16,430; from J. F. Nolen Sons, 64 Church Lane, redressed granite blocks on Baynton St. $15,517, Glenwood Ave. $11,041; from Mazzola & Marano, 414 North Gross St., Cherry, Hicks and Spring Sts. $14,800; from Dunlap & Williams, Ridge and Girard Sts., Walnut and 2nd Sts. $17,156, 12th St. $33,606; from M. J. McCrudden, Real Estate Trust Bldg., 58th St. $28,654; from United Paving Co., Real Estate Trust Bldg., curb and footway work in 1st Dist. $15,499; J. J. McHugh, 1617 Race St., curb and footway work in 2nd Dist. $7,544; from Union Paving Co., 30th and Locust Sts., furnishing asphalt paving mixtures $49,740; from Atlantic Refining Co., 260 South Broad St., furnishing and

Streets and Roads (Continued)

applying bituminous material $31,576; from Birdsboro Stone Co., 1004 Land Title Bldg., furnishing crushed stone $49,436; from J. Meehan & Sons, 916 West Dakota Ave., furnishing crushed slag, $13,938; from Sun Oil Co., Finance Bldg., furnishing oil $1,875.

**Md., Baltimore** — Bd. Awards streets listed in Contr. 254-OANA, 22,085 sq.yd. cement concrete, from Aiello Constr. Co., Gough and 4th Sts., $58,615; Contr. 255-OCNA, 18,240 sq.yd. cement concrete, from Arundel Constr. Co., Knickerbocker Bldg., $48,052. Noted Apr. 17.

**W. Va., Clarksburg**—Paving Bway., vitr. brick, from T. Pietro, Clarksburg, $25,313. Noted Apr. 17.

**O., Cleveland** — Improving (1) Gifford Ave. (2) West 20th St. (3) Wentworth Ave. (4) Forest Ave. (5) West 4th St. (6) Clairdoan Ave., from Baldwin Bros., 4500 Euclid Ave., (1) $17,203 (4) $25,636; Roehl Bros., 7002 Lorain Ave., (2) $6,230 (3) $14,587; Cleveland Trinidad Paving Co., The Arcade, (5) $5,310; Gould & Maybach, 15613 Saranec Rd., (6) $7,141. Work involves 10,140 lin.ft. stone curb, 7,250 lin.ft. 4 in. drain gutter, 5,750 cu. yd. earth excav., 11,905 sq.yd. vitr. brick and asphalt. Noted Apr. 10.

**O., Cleveland**—Cuyahoga Co. improving Kinsman Rd. 6, 28,560 lin.ft. 4 in. drain gutter, 58,400 cu.yd. earth excav., 4,200 sq.yd. (a) vitr. brick (b) concrete, from Lake City Constr. Co., Hickox Bldg., (a) $245,189 (b) $199,593. Noted Apr. 10.

**Ind., Indianapolis** — Marion Co., hard-surfacing 16,774 ft. East 10th St., 18 ft., from McCoun Constr. Co., Cumberland, $81,491. Engrs. est. $87,226. Noted Apr. 17.

**Ind., Indianapolis** — Marion Co., hard surfacing 3 mi. West Morris St. Rd., 24 ft., from O. J. Larkin, Greencastle, $78,400.

**Ind., Newcastle**—City, paving 1.17 mi. Spring St., 30 ft., 2 course concrete, from C. Minick, Newcastle, $2.46 per sq.yd.; 0.91 mi. South 17th St., and 1.1 mi. South 19th St., 30 ft., 2 course concrete, from M. McGrath, Newcastle, $2.53 per sq.yd. and $2.47 per sq.yd. respectively. Engrs. ests. $36,385, $31,005 and $34,760 respectively.

**Ind., Sullivan**—Sullivan Co., grading and gravel surfacing 11,195 ft. J. I. Adams Rd., 18 ft., from G. Unger, Carlisle, $26,-194. Engrs. est. $32,382.

**Ind., Winchester**—Randolph Co., paving 14,080 ft. Marion Hill Rd., 18 ft., from J. L. Teegarden, Union City, $74,450. Engrs. est. $82,100.

**Michigan**—State Hy. Dept., at dist. office Marshall, grading and surfacing 0.893 mi. State Trunk Line Rd. 29-4, Calhoun Co., from Dovey, Kloosterman & Co., Batavia, $24,215. Noted Mar. 27.

**Michigan** — State Hy. Dept., at office Comrs. Clare Co., Harrison, grading and concrete surfacing 11,622 sq.yd. State Trunk Line Rd. 14-37, Clare Co., from Hudson & Coons, East Lansing, $31,625. 12,140 sq.yd. concrete on State Trunk Line Rd. 24-25, Sects. A and B Isabella Co., from Holmes, Crane & Bartling, Alma, $27,634. Noted Apr. 3.

**Mich., Detroit**—Paving with 3½ in. sheet asphalt on 8 in. concrete, from Detroit Asphalt Paving Co., 20 McGraw Bldg., Hendrie Ave. $10,504, Lewis Ave. $9,084, Springwells Ave. $6,335, Walton Ave. $21,-183; from M. R. Hanna Co., 1636 Dime Bank Bldg., Byron Ave. $14,547, Grand Ave. $118,252, 14th Ave. $5,584, Griggs Ave. $14,961, Log Cabin Ave. $53,926, Princeton Ave. $38,995, Wilson Ave. $7,006; from Cooke Asphalt Paving Co., 1260 Penobscot Bldg., Dequindre St. $46,530.

**Ill., Dwight**—Grading, surfacing, etc., North, Seminole, Franklin, Washington, James, Waupansis, Mazon, Delaware and South Sts., rein.-concrete and brick on concrete, from Hartman-Clark Bros., Dwight, $118,825.

**Ill., Waukegan**—For 59,200 sq.yd. concrete, from Western Impvt. Co., 840 9th St., Racine, Wis., $2.68 and $2.75; 13,800 sq.yd. brick, from J. Cape & Son, 468 Water St., Racine, Wis., $1.71.

**Wis., Marshfield**—Concrete paving, etc., various streets, from Schaefer-Thompson Constr. Co., Marshfield, $108,973.

**Wis., Two Rivers** — Paving various streets, from E. J. Streu, Two Rivers, one course concrete $40,188, one course vibrolithic concrete $38,613, two course concrete $38,900.

**Mo., Richmond Heights** (St. Louis P. O.) —For 114,000 sq.ft. concrete paving, curbs, gutters, etc., on Bredell and Park Aves., from E. Watson, Victoria Bldg., St. Louis, $29,711 and $34,760. Engrs. est. $64,800.

**Tex., Bay City**—Matagorda Co. grading and shell surfacing 8.25 mi. State Highway 60. Federal Aid Project, 18,503 cu. yd. roadway, 9,733 cu.yd. borrow, 195 cu. yd. concrete, 20,219 cu.yd. shell, 17,502 lb. reinforcing, from P. G. Burns, San Bernardo, $61,911; drainage structures only on above, from L. C. Watson, Matagorda, $4,746. Noted Mar. 27.

**Tex., Decatur**—Wise Co. grading, surfacing with crushed stone and bridging 11.09 mi. State Highway 39, State Aid Project 471, 1,013 cu.yd. concrete, 20,191 cu.yd. crushed stone, 94,500 lb. structural and 93,703 lb. reinforcing steel, from E. K. Everhart, Chico, $89,907. Noted Mar. 27.

**California**—State Highway Comn., Sacramento, surfacing 9.7 mi. highway, Janesville and 4 mi. west of Milford, Lassen Co., crushed gravel or stone, from Warren Constr. Co., Bacon Bldg., Oakland, $47,921. Noted Apr. 10.

**Calif., Daly City** (Branch San Francisco) —Improving Templeton, Roosevelt Sts., etc., 640,000 ft. 4 in. concrete with 1½ in. asphaltic concrete surface, 40,000 cu.yd. grading, 290,000 sq.ft. cement walks, etc., from Pacific States Constr. Co., Call Bldg., San Francisco, $282,580. Noted Apr. 10.

**Calif., San Anselmo**—Improving Woodland, Ross, Tunstead Aves., etc., 302,292 ft. surfacing grading, 1,618 cu.yd. excav., 385,625 ft. asphaltic concrete surface, 4,162 tons asphaltic concrete base, gutters, curbs, etc., from Pacific States Constr. Co., Call Bldg., San Francisco, $132,250. Noted Apr. 10.

**Calif., Los Angeles**—Los Angeles Co. improving Pomona Blvd. east of Town of El Monte, shaping 16,000 sq.yd. roadway, removing 2,133 cu.yd. old macadam, replacing 16,000 sq.yd. sub-base, 16,000 sq.yd. concrete, shaping 4,800 lin.ft. shoulders (county will furnish 5,000 bbl. cement), from E. Johnson & Sons, Whittier, $26,108; Pomona Blvd. between Ellis Lane and Arden Dr., 3,080 tons asphaltic concrete, shaping 5,622 sq.yd. shoulders, 4 mi. haul, from Griffith Co., Railway Bldg., $25,050; Long Beach Blvd. between Lemon St., Compton, and boundary of Long Beach, 10,027 cu.yd. excav., removing 2,800 cu.yd. old macadam, shaping 18,004 sq.yd. roadway, 18,004 sq.yd. cement concrete, 18,004 sq.yd. sub-base, shaping 10,802 lin.ft. shoulders (county will furnish 5,500 bbl. cement), from Kuhn Bros., 429 Camino Real, Manhattan, $34,152; Western Ave., between Narbonne and Western Ave., Tract 6881, 95,900 cu.yd. excav., shaping 64,600 sq.yd. roadway, 1,550 lin.ft. corrugated iron pipe, various diameters, from C. E. Crowley, Pacific Electric Bldg., $45,600. Noted Apr. 3.

**Ontario**—Dept. Pub. Highways, 110 University Ave., Toronto, plans 20 mi. macadam highway from Lindsay to Peterboro. $350,000. G. Hogarth, ch. engr.

## CONTRACTS AWARDED

**Maine**—State Hy. Comn., Augusta, to Boone & Brewer, Presque Isle, graveling State Highway K Spur in following towns: Easton, $50,759, Lincoln, $50,074, Smyrna, $33,294; to M. Hughes, Bangor, State Highway D in Edgecomb $88,281; to McCabe & Giobannini, Boston, Mass., State Highway N in Edmunds, $65,585; to A. D. Bridges Sons, Inc., Hazardville, Conn., bituminous macadam paving in Raymond $78,269; Arborio Rd. Constr. Co., Hartford, Conn., State Highway B in Brighton, $104,086. Noted Apr. 3.

**N. Y., Gloversville** — Common Council curbing and paving various streets, 15,600 sq.yd. rein.-con., to M. Vrooman, 10 North Main St., $65,673. Noted Apr. 3.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., regrading, curbing, laying sidewalks, etc. on Beach Channel Dr., to E. A. Ferguson, $18,975; grading, curbing and laying sidewalks on Buckley St., to Welsh Bros. Contg. Co., 32 Queens St., Astoria, $5,720; grading, curbing, laying sidewalks, etc., on 89th Ave., to E. Block, $8,088. Noted Apr. 3.

**N. Y., New York**—H. Bruckner, pres. Bronx Boro., curbing, laying sidewalks, etc., on East 132nd St., to J. Meehan & Son, 74 Cortlandt St., $69,082, engrs. est. $32,000; paving Spencer Ave., bituminous concrete, and West 236th St., sheet asphalt, to Asphalt Constr. Co., 208 Bway., $14,445 and $27,951 respectively; curb and sidewalks on Erickson Pl., to P. J. Donovan, 30 Church St., $38,198; grading width 60 ft. in Laconia Ave., to I. F. Cavaluzzo, 1538 Walton Ave., $42,857; grade width 30 ft., etc., in West 232nd St., to Fordham Contg. Co., $29,975; setting curb and laying sidewalks, etc., in Gleason Ave., to Spedero & Turiana, 3185 East Tremont Ave., $3,836. Noted Apr. 24.

**N. Y., New York**—Park Bd., Municipal Bldg., repaving roadway of Spuyten Duyvil Parkway, to J. E. Gaffney, 428 East 91st St., $152,481. Noted Apr. 24.

**N. Y., Poughkeepsie**—Bd. Pub. Wks., Eastman Park Mansion, grading, curbing, paving, etc., 17,400 sq.yd. Reservoir Sq., Fountain Pl., Lexington and Manitou Aves., Montgomery, Cannon, South Clinton and Church Sts., to Spoor-Lasher Co., Inc., 54 Market St., $103,055. Noted Apr. 3.

**N. J., Clifton**—State Hy. Dept., Trenton, will pave Main St., here, by day labor. G. Fergusson, 315 East 34th St., Paterson, engr.

**N. J., Salem**—Salem Co., reconstructing Sect. 2, Pennsgrove-Pedricktown Rd., Sect. 1, Pedricktown-Woodstown Rd., and Sect. 1, Salem-Hancocks Bridge Rd., 27,330 sq. yd. bituminous macadam, 5,000 tons slag, 54,660 gal. bituminous binder, 570 lin.ft. 12- to 24-in. c.i. pipe, etc., to B. Foster Co., 20th and Venango Sts., Phila., $57,-262; 208,000 gal. slow curing asphaltic oil applied to various roads, to Asphalt Serv. Co., 84 Bayard St., New Brunswick, $16,-848; 13,342 gal. light hot asphaltic oil on Sect. 5, Pennsgrove-Salem Rd., to Headley Good Roads Co., Franklin Trust Bldg., Phila., $1,461. Noted Mar. 27.

**N. J., Hopatcong**—Sussex Co. (Newton) concrete paving Lakeside Blvd., here, to C. T. Kavanagh, Inc., 32nd St., Bayonne, $49,934. Noted Apr. 3.

**Pa., Connellsville**—City Council, brick paving on stone, Snyder and Jefferson Sts., to I. A. DePolo, Connellsville, $29,187.

**Pa., Waynesburg**—Comrs. Greene Co., 2,050 ft. concrete pavement on north side of Branthill, Franklin Twp., to Reed & Moore, Waynesburg, $39,930.

**Md., Towson** — Baltimore Co., concrete paving 1 mi. Ridge Rd. from end of concrete east, 14th Dist., and 0.5 mi. Windsor Mill Rd., 2nd Dist. from Hebbville, west, to Ward & O'Connell, New Amsterdam Bldg., Baltimore, $26,545 and $15,332 respectively; 1 mi. Bellona Ave., etc., to P. Reddington & Sons, 2 East Lexington St., $51,323.

**Md., Towson**—Baltimore Co., furnishing and applying 145,000 gal. tar or oil, Proposal 1, also furnishing 117,000 gal. patch material, f.o.b. plant, Proposal 2, to Standard Oil Co., Standard Oil Bldg., Baltimore, $0.135 per gal. Noted Mar. 20.

**W. Va., Charleston** — Grading and concrete paving 1 mi. Kanawha Two Mile Rd., 14 ft., Kanawha Co., to Greybill & Bruce, Charleston, $23,707. Noted Mar. 27.

**W. Va., Madison**—Boone Co., grading 4 mi. Van-Bald Knob Rd., 16 ft., to J. M. Cain & Co., Huntington, $38,160; 4 mi. Van-Browns Creek Rd., 18 ft., to McArthur & Hood, c/o H. J. Spelman, Robson-Prichard Bldg., Huntington, $32,-998.

**W. Va., Pineville**—Wyoming Co., grading 4½ mi. Justice-laeger Rd., to S. T. Waller & Co., Williamson, $79,915.

**N. C., Benson** — Hard surfacing, etc., 65,000 sq.yd. various streets, to Hedrick Constr. Co., Lexington, $173,000. Noted Mar. 13.

**N. C., Morganton**—Hard surfacing Green and Avery Sts., etc., to Dixon Contg. Co., Savannah, Ga., $170,000. Noted Feb. 28.

**S. C., Edgefield**—Graveling section Dixie Highway, to C. T. Teague, Augusta, Ga., $29,759. Noted Apr. 3.

**Fla., Winter Park** — To Southern Clay Mfg. Co., Winter Park, asphalt paving portion Mizel, Phelps, Palmer, Rollins, Kentucky, French and Lakeview Sts., $35,-518; vitr. brick paving portion Palmer and New England Sts., 16, 18 and 24 ft., $39,-750, portion Indiana, New England, Henkle, etc., 16 and 20 ft., $25,083, Palmer St., 20 ft., $25,972, Alabama Dr., Lyman and West Park Sts., 16 to 20 ft., $25,432, Fairbanks, Comstock, Park and Lyman Sts., $28,222, Chase Ave. from Kentucky St. to Ola St., Kentucky, Chapman, Comstock, etc., $26,864.

**Alabama**—State Hy. Comn., Montgomery, concrete surfacing 17.455 mi. Federal Aid Project 100, Chilton Co., to Speed Parker, Norton Bldg., Louisville, Ky., $412,532; grading, to W. A. Taylor, Sylacauga, $119,-021; bridges, to W. T. Weaver, $22,392. Noted Apr. 3.

**Miss., Ecru** — Paving 4 mi. sidewalks, single course 1-2-4 mix concrete, 5-6 ft., to Shannon Constr. Co., Pontotoc. Noted Apr. 10.

**Miss., Port Gibson**—Claiborne Co., grading and gravel surfacing 6.681 mi. Federal Aid Project 153-B and 168, to W. C. Stowell, Hazelhurst, 448.32 cu.yd. concrete $22, 47,298 cu.yd. gravel 1 mi. haul $0.90, ½ mi. overhaul $0.17, 82,981 cu.yd. excav., $0.27, etc. Noted Apr. 3.

Streets and Roads (Continued)

**La., Bastrop**—Morehouse Parish, 4 mi. concrete sidewalks to J. H. Hall, Bastrop, $25,000.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving 3.065 mi. Sect. "A-2" Bellefontaine-Wapakoneta Rd., Auglaize Co., waterbound macadam, to Davis & Davenport Co., Spencerville, $16,547; 2.38 mi. Sect. "Nashville," plain and rein.-con., 2.38 mi. Sect. "J" and 1.678 mi. Sect. "L-2" both plain concrete, Mansfield-Millersburg Rd., Holmes Co., to Griggs & Anderson Co., Millersburg, $48,525, $17,506 and $31,350 respectively; 2.9 mi. Sect. "B-2" Newark-Mt. Vernon Rd., Knox Co., brick, to H. Strodbeck, Ashland, $101,444; 6.549 mi. Sect. "C and D" Euclid-Chardon Rd., Lake Co., rein.-con., to Ohio Contg. Co., Newman Stern Bldg., $226,981; 1.55 mi. Sect. "G" Bucyrus-Tiffin Rd., Seneca Co., bituminous macadam, asphalt, to W. H. and H. A. Souder, Fostoria, $36,961; 3.05 mi. Sect. "K" Tiffin-Bellevue Rd., Seneca Co., bituminous macadam, asphalt, to J. H. Blausey, Woodville, $57,991. Noted Apr. 24.

**O., Cleveland**—Improving Corsica Ave., to Gould & Maybach, 16311 Saranec Rd., $14,999; West 44th St., to Roehl Bros., 7002 Lorain Ave., $4,410; Cornado Ave., to Rieley Bros., The Arcade, $14,184; Hydraulic Ave., to Baldwin Bros., 4500 Euclid Ave., $5,516; East 37th St., to Cleveland Trinidad Paving Co., The Arcade, $20,106; West 59th St., to Garland Bros., Pavers Exch., $18,524. Work involves 7,973 lin.ft. stone curb and 4 in. drain tile gutter, 7,750 cu.yd. earth excav., 13,446 sq.yd. vitr. brick or asphalt on concrete.

**O., Columbus**—W. H. Duffy, dir. Pub. Serv., asphalt paving and widening 1,908 ft. Grant Ave., from 32 to 44 ft., to Cleveland Trinidad Paving Co., Grand Theatre Bldg., $31,712. Noted Apr. 17.

**O., St. Clairsville** — Belmont Co., improving 4.5 mi. Baileys Mills-Temperanceville Rd., 20 ft., to Miller & Wilson, Barnesville, $79,283. Engrs. est. $85,000. Noted Apr. 17.

**O., Shaker Heights** (Cleveland P. O.)—Grading and laying 182,000 lin.ft. stone sidewalks on 13 streets, to Ohio Quarries Co., Union Trust Bldg., Cleveland, $102,395.

**Mich., Detroit**—Grading and paving following alleys with one course 6 in. concrete, to Otis Cement Constr. Co., 806 Hammond Bldg., alley 1879 $2,283, 1883 $2,403, 1884 $7,373, 1890 $3,058, 1891 $2,082, 1892 $777, 1893 $2,363, 1896 $2,426, 1899 $1,944, 1906 $2,331, 1914 $3,079, 1915 $1,861, 1918 $2,008, 1919 $3,373; to T. E. Currie, 20 McGraw Bldg., 1880 $1,328, 1901 $5,385, 1905 $4,656, 1913 $4,768; to F. Porath, Jr., 305 Free Press Bldg., 1902 $2,905, 1903 $4,507, 1912 $3,550; to Bishop & Weir, 1305 Lafayette Bldg., 1881 $4,480, 1887 $4,485, 1888 $2,099, 1898 $1,892; to R. J. Powelson & Co., 6415 Iroquois Ave., 1882 $5,132, 1886 $6,535, 1889 $11,033, 1895 $1,950, 1907 $2,428, 1900 $2,940; to C. L. Lincoln, 8074 East Canfield St., 1885 $3,344, 1894 $4,650, 1897 $3,292, 1904 $2,532, 1910, $3,438, 1916 $5,267; to J. Porath, 903 Free Press Bldg., 1911 $3,585, 1917 $2,096; to Building Maintenance Corp., 1620 West Lafayette Ave., 1900 $2,766.

**Ill., La Grange**—Improving streets northwestern portion of village, 14,000 sq.yd. concrete, 14,000 lin.ft. curb and gutters, to J. Mackler Co., Chicago Heights, $83,128. Noted Apr. 3.

**Wis., Janesville**—Concrete paving various streets, to R. Birdsall Constr. Co., 1025 12th St., Racine, $374,296; portions between street railroad tracks and steam railroad tracks $9,426. Noted Apr. 24.

**Wis., Madison**—Paving, curbs and gutters on Woodrow, St. Paul and Vista Rds., one course concrete, 30 ft., to J. R. Cullinane, 618 West Doty St., $26,646. Noted Apr. 10.

**Wis., Madison**—Rein.-con. paving, curbs and gutters on McKinley and Waubesa Sts., Terry Pl., West Washington Ave., to J. F. Icke, Washington Bldg., $71,990; Kendall Ave. and Milwaukee St., to J. R. Cullinane, 618 West Doty St., $59,750; Rogers, Schurz, 7th, Vanhise, Welch and Whitier Sts., to O'Dea & Schafer, Oregon Rd., $32,080.

**Wis., Milwaukee**—Curbing and guttering Lapham, Burnham and Maple Sts., to W. T. Vanderboom, 97 32nd St., $4,204; concrete paving Locust St., to J. C. Bluhm & Son, 1298 Achilles Pl., $12,256, Montana St., to R. Cumz, 831 13th Ave., $9,499; grading, etc. 51st St., Meinecke and Prospect Aves., to Badger Constr. Co., 97 Wisconsin St., 1,938 cu.yd. grading $0.90, 1,858 sq.yd. light traffic asphalt $2.83, 1,973 lin.ft. curb and gutter $0.95, 8,621 sq.ft. cement walks $0.24, 5,439 sq.yd. old pavement removed $0.33, 5,439 sq.yd. new asphalt resurface $1.95.

**Wis., Milwaukee** — Paving with vibrolithic concrete, American Ave. and Clinton St., to Kroening Constr. Co., 39th Ave. and Mitchell St., $31,190, 14th, Harrison and Logan Aves., Montana and Martin Sts., to R. H. Gumz, 831 13th Ave., $76,533, Locust St. and Washington Pl., to A. Retzloff, 868 Island Ave., $15,070, 23rd Ave. and Rogers St., to Milwaukee General Constr. Co., 427 Mitchell St., $12,196, 21st St. to J. Bluhm & Son, 1298 Achilles Pl., $2,035; light traffic asphalt 50th St., to Badger Constr. Co., 97 Wisconsin St., $11,264.

**Ia., Cedar Falls**—Paving 11,360 sq.yd. with 8-in. vibrolithic concrete, to Dearborn Constr. Co., Waterloo, $2.58 per sq.yd., etc., total $36,010.

**Ia., Centerville**—Concrete paving 14,093 sq.yd. main streets, to Union Constr. Co., Des Moines, $39,744.

**Ia., Davenport**—Concrete paving 28 alleys, to W. D. Phelan, 313 Hazelwood Ave., $1.68 per sq.yd.; 10 alleys to Iowa Constr. Co., 419 Harrison St., $1.72 per sq.yd.; sheet asphalt paving 12 streets to Central Eng. Co., 809 Putnam Bldg., $2.58 per sq. yd.; bitulithic on 10 streets, to McCarthy Impvt. Co., Davenport, $2.69 per sq.yd. Noted Apr. 10.

**Ia., Des Moines**—Paving various streets, to Wright Constr. Co., 211 Flynn Bldg., 17,043 yd. 6-in. vibrolithic concrete $2.35, 5,374 sq.yd. 7-in. plain concrete $2.36; to Hawkeye Constr. Co., 402 Securities Bldg., 3,280 sq.yd. 6-in. vibrolithic concrete $2.51.

**Ia., Manchester**—Delaware Co., gravel surfacing 21.05 mi. road from Manchester west and north, 26 ft., 32,845 cu.yd. gravel, 1 mi. haul, 66,500 cu.yd. gravel ½ mi. haul, 8,000 cu.yd. stripping gravel pit, to Werneke Bros. & Jones, Oelwein, $25,322.

**Minn., St. James**—Wataonwan Co., will build Job 2401, State Rd. 15, 27,000 cu.yd. excav., 78,000 cu.yd. overhaul, two concrete bridges, each 30 ft. span, pipe culverts, by day labor; Job 2402 State Rd. 16, 56,000 cu.yd. excav., 165,000 cu.yd. overhaul, to O. Wenstrom, St. James, $0.26 per cu.yd. Noted Mar. 27.

**N. D., Cando** — A. T. Mooney, aud. Towner Co., grading 13.3 mi. Federal Aid Project 179, 104,804 cu.yd. excav., etc., to H. F. McCoy, Cando, $45,000. Noted Mar. 27.

**N. D., Ashley**—J. Billigmeier, aud. McIntosh Co., grading 12 mi. Federal Aid Project 216, 82,662 cu.yd. excav., to J. Herr, Jr., Ashley, $32,856, 534 lin.ft. 24 in., 274 ft. 30 in. and 2,034 ft. 18 in. portable culverts, to J. J. Rue & Sons, Baldwin, $5,536.

**Mont., Polson**—Lake Co. gravel surfacing Federal Aid Project 192 A and B, Arles-Ravelli Rd., to A. L. Markhus & Co., Missoula, $25,606; one 90 ft. steel pony truss bridge, Federal Aid Project 192 C, to D. Graham, Missoula, $12,370. Noted Apr. 10.

**Missouri** — State Hy. Dept., Jefferson City, paving 8,931 sq.yd. Hannibal-St. Louis Rd., Marion Co., concrete, to Cameron, Joyce & Co., Keokuk, Ia., $29,562; 4.308 mi. Albany-Stanberry Rd., 16 ft., Gentry Co., macadam, to E. C. Johnson, Carrollton, $48,027. Noted Mar. 6 and Apr. 3.

**Mo., Richmond Heights** (St. Louis P. O.)—Grading, concrete curbing, guttering and surfacing Park and Bredell Aves., to E. Watson, Victoria Bldg., St. Louis, $34,760 and $29,711 respectively.

**Mo., St. Joseph**—Concrete paving streets, to O. H. Schmidt, Bartlett Bldg., $31,130.

**Mo., St. Louis** — See "Buildings under Proposed Work."

**Mo., St. Louis**—Improving streets in Westmore Subdivision, 10,000 lin.ft. concrete curb and gutters, 40,000 sq.ft. concrete sidewalks, to Stolle Contg. Co., 5243 Delmar Blvd., $20,000, 13,000 lin.ft. curb and gutter, 50,000 sq.ft. pavement, to J. Graham, Victoria Bldg., $25,000.

**Mo., Trenton**—Grading and 6 in. rein.-con. surfacing 20 blocks, to Harrison Constr. Co., Des Moines, Ia., $61,497.

**Ark., Walnut Ridge** — Graveling and grading 56,899 sq.yd., also paving 9,760 sq.yd. with 2 in. asphaltic concrete on 6 in. base in Dist. 2, to C. Hager, Walnut Ridge, $85,000. Noted Feb. 7.

**Tex., Crosbyton**—For 31,000 sq.yd. brick paving and 7,300 ft. curb and gutter to Valient & Toomey, F & M Bank Bldg., Ft. Worth, $110,000.

**Tex., Denison**—Resurfacing Gandy St. from Houston to Perry Sts., rock asphalt, to Kaw Paving Co., 616 N. E. Bldg., Topeka, Kan. $65,000; paving Houston St. from Main to Chestnut Sts., 3 in. brick, to J. C. Fields, Denison, $3.15. Noted Mar. 27.

**Tex., Italy**—Paving various streets, 191,000 sq.yd. brick on 5 in. concrete, 10,600 ft. curb and gutter, 9,500 cu.yd. excav., to H. W. Greenway, 212 Hemphill St., Ft. Worth, $75,000. Noted Mar. 27.

**Tex., Tyler**—Smith Co. rein.-con. paving 1.75 mi. State Highway 31, Chandler Rd., 18 ft., to Tibbetts Constr. Co., Mineral Wells, $40,000.

**Okla., Clinton** — Grading and paving South 6th and East Choctaw Sts., Willite on concrete, concrete curb and gutter, to Western Paving Co., Trades Natl. Bank Bldg., Oklahoma City, $59,237.

**Okla., Oklahoma City**—Resurfacing with asphalt 12,000 sq.yd. Classen Blvd., to Western Paving Co., Tradesmens Bldg., $39,373. Noted Dec. 20.

**Calif., Colusa** — Colusa Co., improving Maxwell Sites Rd., 11,000 cu.yd. excav., 11,250 tons broken stone, 325 tons asphaltic oil Grade E, to J. E. Johnston, Savings & Loan Bldg., Stockton, $49,830.

**Calif., Hawthorne** — Paving Acacia and Birch Aves., Willite, to G. H. Oswald, 366 East 58th St., Los Angeles, $236,600.

**Calif., Los Angeles**—Improving St. Andrews Pl. between Sunset and Santa Monica Blvds., to G. R. Curtis, 2440 East 26th St., grading $6,000, 99,259 sq.ft. Warrenite-bitulithic $0.2625, 3,360 sq.ft. 2 in. bituminous base $0.12, 6,075 sq.ft. walks $0.22, 5,788 sq.ft. concrete gutter $0.30, sanitary sewer $4,900, etc., total $42,115. El Nido St. between Sherman Way and Saugus Ave., to G. H. Oswald, 366 East 58th St., grading $3,400, 104,156 sq.ft. asphaltic concrete $0.21, total $25,391. Noted Apr. 10.

**Calif., San Diego** — Improving Girard Ave. and Coast Blvd., 118,601 sq.ft. 5 in. cement concrete, to D. H. Ryan, 1615 Fern St., $30,795. Noted Apr. 24.

# Industrial Works

## PROPOSED WORK

**Mass., Boston**—Service and Repair Shop —Y. D. Service Garage, Inc., 341 Newbury St., plans rein.-con., 18-20 Deerfield St. $200,000. Private plans.

**Mass., Canton**—Factory—Norfolk Japanneries, Inc., had plans prepared by J. O. DeWolfe, archt. and engr., 45 Bromfield St., Boston, four 1 story, 60 x 150 ft. factory units and 1 story, 30 x 40 ft. power house, brick and steel. $60,000.

**Mass., Westfield**—Factory—Amer. Abrasive Co., Union St., having plans prepared by M. B. Harding, 97 Elm St., 3 story, 40 x 90 ft., 1 story, 50 x 185 ft. and 2 story, 50 x 62 ft. factory units, brick and steel, also 35 x 125 ft. warehouse.

**N. Y., Alplaus**—Plant—Wassell-Mathieson Corp., Schenectady, plans brick plant, here. $75,000. Private plans.

**N. Y., Brooklyn**—Plant—E. R. Squibb & Sons, 36 Doughty St., soon lets contract rein.-con., brick and steel addition, plain foundation, Vine and Doughty Sts. $500,000. R. G. Cory, 30 Church St., New York City, archt. and engr.

**N. J., Ridgefield**—Mill—Lowe Paper Co., River St., soon lets contract 1 story, 40 x 250 ft., rein.-con., brick and steel, plain foundation. Frederick L. Smith, 21 East 40th St., New York City, archt. and engr.

**Pa., Phila.**—Generator Station—See "Unclassified" under Contracts Awarded.

**W. Va., West Moreland**—Plant—Huntington Sash and Cabinet Co., 19th St. and 2nd Ave., Huntington, plans 1 story plant, here. $50,000.

**Va., Grundy** — Machine Shop, etc.—Mountain Industrial Institute having plans prepared by Manhood & Van Dusen, Bluefield, W. Va., machine shop and central heating plant. $100,000.

**Ga., Middlesboro** — Plant — Compressed Coal Co., Savannah, plans plant, here. $40,000.

**Miss., Shuqualak**—Plant—City having preliminary plans prepared by H. A. Mentz, engr., Magnolia, electric light plant, equipment, distribution lines, etc. $40,000.

**Tenn., Columbia**—Plant—Southern Cities Power Co. plans 100 hp. addition to hydroelectric plant on Duck River, near here. To exceed $40,000.

**Ky., Louisville**—Plant—Louisville Gas & Electric Co., 311 West Chestnut St., plans addition to gas plant at Riverside station, near here, incl. steel and concrete smokestack, 197 ft. high, 14 ft. diam. at base. $175,000. F. Strong, c/o owner, ch. engr.

**Ohio** — Substations — Steubenville, East Liverpool & Beaver Valley Traction Co., East Liverpool, plans new substations at Steubenville, Costonia, Yellow Creek, Kountz Corner, East Liverpool, Industry and near Pennsylvania-Ohio state line.

Industrial Works (Continued)
for conversion of 22,000 volt alternating current to 625 volt dc. $175,000. C. A. Smith, genl. mgr.

**O., Bedford**—Factory, etc.—B. L. Marble Chair Co., c/o C. H. Parker, secy. and treas., had plans prepared by H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, 4 story, 80 x 208 ft., factory, and 4 story, 30 x 72 ft., office, brick and steel. $250,000.

**O., Zanesville** — Factory — Lockwood, Greene & Co., archts., Hanna Bldg., Cleveland, soon take bids 3 story and basement, brick and rein.-con., here, for Mosaic Tile Co. $125,000. Noted Apr. 10.

**Ind., Crown Point** — Plant — Cummings Vote Register Co., Knox, plans plant, here. $40,000.

**Ind., Muncie** — Plant — Amer. Lawn Mower Co., 18th and Monroe Sts., plans 50 x 180 ft., concrete and steel addition.

**Ind., Noblesville** — Plant — Ball Bros., Muncie, plan additions and improvements to plant recently acquired here. $100,000.

**Mich., French Landing** (mail Romulus) —See "Dams."

**Minn., Fosston** — Creamery — Fosstons Farmers Co-operative Co. plans 2 story, brick and concrete. $40,000. J. Glade, secy. Engineer and architect not announced.

**Tex., Austin**—Mill—Planters & Manufacturers Cotton Mills Co., New Braunfels, having plans prepared by Lockwood Greene & Co., engrs., New Braunfels, cotton mill, 100,000 spindles and 300 looms, here. $1,000,000. S. M. Ransopher, genl. mgr.

**Tex., Ft. Worth**—Mill—Trinity Portland Cement Co., Commonwealth Bldg., Dallas, having revised plans prepared 4 kiln plant, 4,800 bbl. daily capacity, here. $2,000,000. Private plans.

**Kan., Ft. Scott**—Shops—Missouri-Pacific R.R. Co., Railway Exch. Bldg., St. Louis, Mo., plans to rebuild shops recently destroyed by fire, 1 and 2 story, brick and concrete. $200,000. E. A. Hedley, ch. engr.

**Tex., New Braunfels**—Power Plant—San Antonio Pub. Serv. Co., 201 North St. Marys St., San Antonio, plans steam turbine power plant on Guadalupe River, near here, power developed will be brought to San Antonio on transmission lines. $500,000. Private plans.

**Tex., San Antonio** — Mill — Planters & Manufacturers Cotton Mills, New Braunfels, having plans prepared by Lockwood Greene & Co., engrs., New Braunfels, cotton mill, 10,000 spindles and 300 looms, here. $1,000,000. S. M. Ransopher, genl. mgr.

**Tex., San Marcos** — Mill — Planters & Manufacturers Cotton Mills Co., New Braunfels, having plans prepared by Lockwood Greene & Co., engrs., New Braunfels, cotton mill, here. $1,000,000. S. M. Ransopher, genl. mgr.

**Calif., Los Angeles**—Plant—Willys-Overland Pacific Co., 1058 South Hope St., plans automobile testing and assembling plant, to contain 100,000 sq.ft. of floor space.

**Calif., San Francisco**—Factory—Amer. Steel & Wire Co., 16th and Folsom Sts., had plans prepared 2 story, frame addition to factory. $40,000. Private plans.

**Calif., San Francisco**—Automobile Repair Shop—H. E. Holmes, 774 Folsom St., having plans prepared by P. Righetti, 12 Geary St., 1 story, brick, 7th St. $45,000.

**Ont., Guelph** — Factory — Malt Products Ltd., Waterloo Ave., plans to rebuild factory recently destroyed by fire. Loss $140,000.

**Que., Three Rivers**—Station—Canadian Pacific Ry., Windsor St., Montreal, plans 2 story, 80 x 235 ft., granite stone, passenger station, Champflour St. between St. Martin and St. Maurice Sts. $1,000,000.

**Ont., Leamington**—Factory—H. J. Heinz Co., 1062 Progress St., Pittsburgh, Pa., plans addition to plant, here. $100,000.

### BIDS DESIRED

**N. Y., Brooklyn**—Repair Shop—May 9, by Transit Comn., 49 Lafayette St., New York, furnishing and erecting structural steel for electrical repair shop at Coney Island Yard, here. G. McAneny, chn.

**Ky., Louisville**—Warehouse—R. J. Reynolds Tobacco Co., Swan and Kentucky Sts. taking bids and opens same about May 5, brick warehouse, 920 East Kentucky St. $88,000. Noted Jan. 10.

**Wis., Madison** — Laundry — Bd. Health, H. C. Buser, city clk., taking bids 2 story and basement, 36 x 70 ft., laundry and boiler house, brick, rein.-con. and steel, plain foundation. Claude & Stark, Badger Annex, archts. Noted Apr. 3.

**Wis., Menomonie**—Creamery—New Hudson Road Creamery, C. Oberle, secy., taking bids 2 story, 70 x 80 ft., brick and timber, plain foundation. $40,000. Private plans.

**Ia., Cedar Rapids**—Plant—May 19 (extended date), 2 story and basement, 60 x 140 ft., rein.-con., brick, tile and stone, 3rd Ave. and 5th St. E. $90,000. B. Rugh, 119½ 2nd Ave., archt. Noted Apr. 17.

**Tex., Houston**—Cotton Mill—J. A. Baker, Chamber of Commerce Bldg., taking bids 1 story, 40 x 133 ft., brick and steel, East Montgomery Rd. $500,000. J. E. Sirrine & Co., Greenville, S. C., engrs.

### BIDS RECEIVED

**Ky., Louisville** — Workshop — Kentucky School for Adult Blind, Frankfort Ave., 2 story, 35 x 108 ft., from J. F. Russell, M. E. Taylor Bldg., about $75,000.

### CONTRACTS AWARDED

**Mass., Cambridge** (Boston P. O.)—Plant —General Radio Co., 11 Windsor St., 3 story and basement, 50 x 95 ft., rein.-con., to W. H. Whitcomb Constr. Co., 6 Beacon St., Boston. Noted Mar. 20.

**N. Y., Brooklyn**—Bakery—General Baking Co., 342 Madison Ave., New York, 2 story, 212 x 255 ft., rein.-con., brick and steel, plain foundation, Washington Ave. near Lefferts Ave., here, to Turner Constr. Co., 244 Madison Ave. Archts. est. $300,000. Noted Jan. 24.

**N. J., Newark** — Tannery — Lasker & Bernstein, Inc., 481 New Jersey Railroad Ave., 4 story, rein.-con., brick and steel addition, to Reinstein & Haas, 128 East 101st St., New York City. Archts. est. $150,000.

**Pa., Chester**—Substation—J. T. Windrin, archt., Commonwealth Bldg., 1 story and basement, 60 x 136 ft. brick and steel, plain foundation, 6th St. below Welsh and Crosby Sts., to Irwin & Leighton, 126 North 12th St., Phila., for Delaware Co. Electric Co., c/o Phila. Electric Co., 10th and Chestnut Sts., Phila. Noted Apr. 3.

**Pa., St. Clair** — Shop — Pennsylvania & Reading R.R. Co., Reading Terminal, Phila., 1 story, 53 x 61 ft. brick and steel, plain foundation, to C. Ginrod, 10 South 18th St., Phila.

**Pa., South Greensburg** (Greensburg P. O.)—Plant—Railway & Industrial Eng. Co., will build 2 story, 68 x 220 ft. brick, steel and tile, by day labor. Private plans.

**W. Va., Huntington** — Plant — International Nickel Co., 67 Wall St., New York City, 1 story, 90 x 100 ft. plant, general contract to McClintic Marshall Co., Oliver Bldg., Pittsburgh, Pa.

**N. C., Raleigh**—Power Plant—State College of Engineering and Agriculture, auxiliary power plant, to J. A. Harvey, Charlotte, $107,600.

**N. C., Spencer**—Roundhouse, etc.—Southern R.R. Co., Southern Bldg., Wash., D. C., 37 stall roundhouse and flue shop, 51 x 155 ft., to L. W. Hancock, Constr. Co., Louisville Trust Bldg., Louisville, Ky., $260,000. Noted Apr. 3.

**Miss., McComb** — Cotton Mill — Landau Bros., will build 1 and 2 story, brick and concrete, by day labor. $150,000. Private plans.

**O., Cleveland**—Factory—Cleveland Chain & Mfg. Co., c/o L. B. Round, pres., Stop 3 A. B. C. Line, 1 story, 170 x 210 ft., brick and steel, to Forschner Co., East 10th St. and St. Clair Ave. Archts. est. $100,000.

**O., Cleveland**—Factory—Ohio Machine & Boiler Co., 1501 University Rd., 1 story, 64 x 100 ft., brick and steel, 1503 University Rd., to Skeel Constr. Co., 3719 Cypress Rd. Archts. est. $40,000.

**Ill., Chicago** — Factory — Graff Motor Coach Co., c/o Oman & Lilienthal, archts., 64 West Randolph St., 3 story, 74 x 144 ft., fireproof, Michigan and 37th Sts., to Federal Constr. Co., 64 West Randolph St. Archts. est. $150,000.

**Ill., Chicago**—Factory—Williamson Candy Co., 4701 Armitage Ave., 3 story, 174 x 221 ft., fireproof, 4701-17 Armitage Ave., to H. Ericsson Co., 139 North Clark St. Archts. est. $250,000.

**Wis., Madison**—Factory—Burgess Battery Co., Main and Brearly Sts., 2 story, 60 x 150 ft., brick, rein.-con. and steel, addition, plain foundation, Main St., to A. D. and J. V. Frederickson, 702 East Main St. Est. $75,000.

**Wis., Milwaukee** — Factory — Eagle Chemical Co., 243 Grove St., 2 story, 40 x 100 ft., brick and timber, plain foundation, Hanover St., to W. G. Williams, 352 Jackson St. $40,000.

**Wis., North Milwaukee**—Factory, etc.—O. H. Kindt Mfg. Co., 986 47th St., Milwaukee, 2 story, 62 x 150 ft., brick and timber, plain foundation, also 1 story, 60 x 92 ft. warehouse, and 32 x 40 ft. boiler house-dry kiln, Cedarburg Rd., to R. Zils, 294 Grand Ave., Wauwatosa. $75,000.

**Wis., Sturgeon Bay**—Factory—Pleck Ice Cream & Dairy Co., 2 story, 52 x 75 ft., brick and timber, to E. Olson, Sturgeon Bay, $40,000.

**Ia., Des Moines**—Power Plant—See "Unclassified."

**Ia., Ft. Dodge**—Plant—American Cement Plaster Co., 2 story and basement, to W. J. Zitterell, Webster City. Est. cost $65,000.

**Kan., West Wichita**—Factory—Bushong Candy Co., 1018 West Douglas St., Wichita, 2 story and basement, rein.-con. and brick, plain foundation, Oak and Douglas Sts., to Underhill Constr. Co., 131 North Emporia St., Wichita. Est. cost $50,000. Noted Oct. 18.

**Calif., San Francisco** — Shop — Kleiber Motor Truck Co., 11th and Folsom St., 2 story, concrete, 10th and Folsom Sts., to Austin Co. of Calfornia, Sante Fe Bldg., $165,000. Noted Feb. 28.

## Buildings

### PROPOSED WORK

**Me., Portland**—Exchange—New England Telephone and Telegraph Co., 50 Oliver St., Boston, plans exchange, brick and steel, here. $150,000-$185,000.

**Conn., Manchester**—Theatre—S. Campner and D. Pouzzner, 129 Church St., New Haven, having plans prepared by J. A. Tuck, Boston, and J. Weinstein, associated archt., Metropolitan Bldg., New Haven, theatre, Main St., here. $200,000.

**N. Y., Binghamton**—Hospital—Bd. Mgrs. Binghamton City Hospital had plans prepared by W. H. Whitlock, S. M. Bldg., addition. To exceed $150,000.

**N. Y., Binghamton**—School—Bd. Educ. plans school, Fayette, Hawley and Stuyvesant Sts. $500,000.

**N. Y., Binghamton** — School — Common Council plans Christopher Columbus School in 7th Ward. $400,000. Engineer and architect not selected.

**N. Y., Buffalo**—Church—Building Com. United Presbyterian Church plans gray brick and Indiana limestone, McKinley Parkway. $150,000. G. M. McKnight, 410 South Park Ave., pastor.

**N. Y., Buffalo**—Dance Hall—Buffalo & Crystal Beach Corp. plans dance hall. $150,000. G. C. Hall, 113 Newman Pl., chn. executive com.

**N. Y., Buffalo**—Office—Buffalo General Electric Co., Genesee and Washington Sts., plans 4 story, 100 x 200 ft., rein.-con. and brick, Genesee St. $200,000.

**N. Y., Buffalo**—Office, etc.—Huyler Candy Co., 350 Main St., had plans prepared by J. Horton, Prudential Bldg., 3 story, 150 x 190 ft., rein.-con., brick and steel, office and factory, Delaware Bldg. To exceed $150,000.

**N. J., Camden** — Lodge — B. P. O. E., Federal St. and Bway., plans lodge on 80 x 160 ft. lot, 7th and Cooper Sts. $400,000. A. Austermuhl, 1519 Wildwood St., secy.

**N. Y., Flushing**—School—Bd. Educ., 500 Park Ave., New York, withdrew bids (Apr. 22), P. S. 32, 35th Ave. from 171st to 172nd Sts., here. Will readvertise. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr. Noted Apr. 3.

**N. Y., Geneva**—Clubhouse—Bd. Dirs. Knights of Columbus, 68 Castle St., plans clubhouse. $185,000. Address J. P. Rice, member building com. Engineer and architect not selected.

**N. Y., Hudson Falls** — Garage — J. B. White Motor Co., Inc., plans brick, concrete and steel garage. $150,000. J. B. White, pres.

**N. Y., Ilion** — Temple — Ilion Lodge of Masons plans addition. $150,000-$200,000. Address A. T. Pilson, Ilion, master.

**N. Y., Ithaca**—Hotel—C. Taylor, Cayuga Heights, having preliminary plans prepared by H. J. Hardenburgh, archt. and engr., 47 West 34th St., New York City, brick, steel and stone, plain foundation. $600,000.

**N. Y., Jamestown**—Bank and Office—Natl. Chautauqua Co. Bank plans 3 story and basement, brick, steel, concrete and Ohio stone addition, Main and 2nd Sts. To exceed $150,000.

**N. Y., Elmira**—Theatre, Office and Store —Gibson & Van Demark plan theatre, office and store, State St. $150,000.

Buildings (Continued)

**N. Y., New York** — Apartment — One Forty-Five East 73rd St. Corp., c/o J. E. R. Carpenter, archt. and engr., 598 Madison Ave., had plans prepared 14 story, brick, steel and stone, plain foundation, East 73rd St. $500,000.

**N. Y., New York** — Garage — Alumor Realty Co., c/o C. N. Whinston & Bro., archts. and engrs., 2 Columbus Circle, having plans prepared 7 story, 75 x 100 ft., rein.-con., plain foundation, 195 Washington St. $200,000.

**N. Y., New York** — High School — St. Patricks Cathedral c/o R. J. Reiley, archt. and engr., 50 East 41st St., having plans prepared 7 story, 100 x 180 ft., brick, steel and stone, plain foundation, Lexington Ave. and 50th St.

**N. Y., New York**—Loft and Office—Eisendrath & Horwitz, archts. and engrs., 18 East 41st St., preparing plans 14 story, brick, steel and stone, plain foundation, 54 West 39th St. $500,000. Owners name withheld.

**N. Y., New York** — Office — New York Life Insurance Co., 346 Bway., having plans prepared by Cass Gilbert, archt. and engr., 244 Madison Ave., brick, steel and stone, plain foundation, Madison Ave. and 26th St. $200,000.

**N. Y., New York**—Office—Cova Realty Co., c/o C. N. Whinston & Bro., archts. and engrs., 2 Columbus Circle, having plans prepared 10 story, 58 x 125 ft., brick, steel and stone, plain foundation, Bway. and 60th St. $250,000.

**N. Y., New York**—Synagogue—Congregation Shereth Israel, c/o C. N. Whinston, archt. and engr., 2 Columbus Circle, having plans prepared brick, steel and stone, plain foundation, Intervale Ave. and Southern Blvd. $150,000.

**N. Y., Ogdensburg**—School—Bishop Conroy, Catholic Diocese, plans brick, concrete and steel. $200,000. D. D. Kieff, Flower Bldg., Watertown, archt.

**N. Y., Rochester** — Hospital — Building Com. Highland Hospital, south Ave. and Bellevue Dr., had plans prepared by Arnold & Stern, 154 East Ave., 4 story, 52 x 108 ft., brick, concrete and steel addition. $150,000. Noted Nov. 1.

**N. Y., Rochester**—Parish House—Building Com. of Vestry of Christ Episcopal Church had plans prepared by Foote & Carpenter, 154 East Ave., 2½ story and basement, brick, concrete and steel. To exceed $150,000.

**N. Y., Rome**—High School—Election May 6, $400,000 bonds, new high school, Linden and Turin Sts. F. W. Marks, pres. Bd. Educ. Noted Apr. 10.

**N. Y., Syracuse**—Store and Office—White & Dennison Estates had plans prepared by M. L. King, Snow Bldg., 4 story, 221 East Fay St. $200,000.

**N. Y., Troy**—Office and Bank—Natl. City Bank plans 3 story and basement, State and 3rd Sts. $200,000-$225,000.

**N. J., Bridgeton**—Hospital—Stearns & Woodnutt, archts., Stephen Girard Bldg., Phila., rejected bids Apr. 14, brick and steel, plain foundation, Irving and Magnolia Sts., here, for Bridgeton Hospital Assn. Plans will be revised. Noted Apr. 10.

**N. J., Hoboken**—Theatre—C. N. Whinston & Bro., archts. and engr., 2 Columbus Circle, New York City, having plans prepared 82 x 110 ft., brick, steel and stone, plain foundation, here. $260,000. Owner's name withheld.

**N. J., Rutherford**—School—Bd. Educ. plans new school. $350,000. Address H. N. Morse, 901 Berkely Ave., Trenton, bus. mgr. State Bd. Educ.

**Pa., Bethlehem**—Community—Bethlehem Jewish Community Centre Assn., c/o A. Patruch, Wyandotte Hotel, having plans prepared by D. Levy, 949 Hamilton St., Allentown, 3 story and basement, 100 x 130 ft. brick and steel, plain foundation, South Side, $150,000.

**Pa., Johnstown**—Church and School—St. Rochus Catholic Church, E. Kajic, rector, plans 3 story and basement, rein.-con., brick and steel, on 130 x 205 ft. site, Garfield St. $200,000.

**Pa., Neversink** (Reading P. O.)—Sanitarium — Comrs. Berks Co., Courthouse, Reading, having plans prepared by A. F. Smith & Son, Berks Co. Trust Bldg., Reading, 3 story and basement, rein.-con. and stone, $300,000.

**Pa., Phila.**—Church—Second Church of Christ Scientist, c/o Day & Klauder, archts., Franklin Bank Bldg., having plans prepared 1 story, 75 x 110 ft, rein.-con. and brick, plain foundation, Greene Ave. and School Lane. $175,000.

**Pa., Phila.**—Institute—Seamans Church Institute, Walnut and Dock Sts., having revised plans prepared by Ballinger Co., 12th and Chestnut Sts., 3 story and basement, Walnut and Dock Sts. Former bids rejected. Noted Jan. 31.

**Pa., Phila.**—Service and Loft—Breyer Ice Cream Co., 8th and Comberland Sts., having plans prepared by W. F. Koelle, 26th and Oxford Sts., 6 story and basement, 80 x 90 ft. rein.-con. and brick, plain foundation, 45th St. below Woodland St. $200,000.

**Pa., Phila.**—Store—Frank & Sedar, 11th and Market Sts., having plans prepared by Ballinger Co., 12th and Chestnut Sts., 12 story and basement, 78 x 108 ft. steel and tile addition, plain foundation.

**Pa., Phila.** — Theatre — Stanley Co. of America, 1214 Market, 1214 Market St., having plans prepared by Hoffman-Henon Co., Finance Bldg., theatre, Overington and Frankford Aves., and one at 54th and Wynnewood Aves.

**Pa., Reading**—High School—School Bd. having plans prepared by Ritcher & Eiler, 147 North 5th St., 3 story and basement, brick, Oley St. $300,000.

**Del., Wilmington** — Club House — Wilmington City Club, N. H. Fenn, Jr., chn. building comn., Du Pont Bldg., having plans prepared by E. W. Martin, 2301 Spruce Pl., clubhouse. $200,000.

**Md., Baltimore**—Professional—Physicians and Surgeons Bldg., Inc., c/o A. F. Olsen, Physicians Exch., 3935 Cedar Ave., plans 8 story, stone, brick and steel, Cathedral and Richmond Sts. $1,000,000. Parker, Thomas & Rice, Union Trust Bldg., archts.

**D. C., Wash.**—Apartment—Kaleb Apartment Co. having plans prepared by Stern & Tomilson, Continental Trust Bldg., 14th and H Sts. N. W., apartment house, 11th and K Sts. $200,000.

**W. Va., Charleston**—Church Addition—First Presbyterian Church having plans prepared by C. C. and E. A. Weber, Ingalls Bldg., Cincinnati, O., 3 story addition. $150,000.

**W. Va., Huntington** — Garage — Motor Car & Truck Co. plans 3 story garage, service and repair station. About $150,000.

**W. Va., Huntington** — Hotel — F. C. Prichard having plans prepared by H. Z. Deitz, Indianapolis, Ind., 13 story, rein.-con. and steel, 6th Ave. and 9th St. $2,500,000.

**W. Va., Mannington**—School—Election May 15, $200,000 bonds for school. Noted Mar. 27.

**W. Va., Morgantown**—High School—Bd. Educ. having plans prepared by E. B. Lee, Chamber Commerce Bldg., Pittsburgh, Pa., high school, here. $600,000.

**W. Va., Parkersburg** — Hotel — E. A. Brast Co., plans 6 story, 44 x 171 ft., rein.-con. addition. $150,000. Pennington & Lewis, 477 5th Ave., New York City, archts.

**W. Va., Wheeling** — Bank and Office — Union Trust Co. having plans prepared by C. W. Bates, 77 12th St., 10 story and basement, 68 x 120 ft., rein.-con. and brick. $600,000.

**N. C., Salisburg**—Schools—Election June 3, $300,000 bonds, new school buildings.

**Miss., Starkville** — Hotel — Starkville Hotel, R. Goodman, pres., having plans prepared by N. W. Overstreet & Co., Jackson, 3 story, Main and Jackson Sts. $150,000.

**Tenn., Chattanooga**—Hotel—Chamber of Commerce having preliminary plans prepared by J. B. Pound, archt., c/o owner, modern fireproof hotel on Look Out Mountain, near here. $200,000. S. R. Read, Flat Iron Bldg., pres.

**Tenn., Jackson**—Court House—Madison Co. plans court house on Public Sq. $500,000.

**Tenn., Knoxville** — Hospital — Tennessee State Baptist Convention, Nashville, plans hospital, here. Committee appointed to formulate plans. $500,000.

**Tenn., Knoxville**—Y. W. C. A., Clinch and Walnut Sts., plans dormitories, club rooms, etc. $200,000. Engineer and architect not selected.

**Tenn., Memphis**—Apartment—A. Thomas and R. Cohen, had plans prepared by E. W. Mann, Madison Ave. Bldg., 2 story, incl. laundry, garage, etc., veneer brick, tile and stone, Madison and Florence Sts. $150,000.

**Tenn., Memphis**—School—University of Tennessee having plans prepared by Jones & Furbringer, Porter Bldg., 1 story addition, rein.-con. and brick, Madison and Union Sts. $150,000.

**Tenn., Nashville** — Bank and Office — Nashville Trust Co., 233 3rd Ave. N., plans 12 story, 3rd and Union Sts. $800,000.

**Ky., Ashland**—School—Bd. Educ. plans election $200,000 bonds for schools.

**Ky., Louisville**—Apartments—W. J. Murphy, 1148 Bardstown Rd., plans 6 small apartments in Cherokee Village, suburb of Louisville. $160,000.

**Ky., Louisville**—High School—Bd. Educ. having plans prepared by A. G. Tafel, Coleman Bldg., 2 story and basement, manual training high school, Burnett St. and Pindell Ave. To exceed $150,000.

**Ky., Lyndon** — Institution — Kentucky Childrens Home Society having plans prepared by Nevin, Wischmeyer & Morgan, Starks Bldg., Louisville, 2 story and basement, 75 x 95 and 35 x 39 ft. $150,000.

**Ky., Owensboro**—Church—St. Stephens Catholic Church having plans prepared by F. Erhart, Norton Bldg., Louisville, church, Locust and White Aves. $150,000.

**Ky., Wilmore**—College—Asbury College plans to rebuild 2 dormitories recently destroyed by fire. $150,000.

**O., Bedford** — Office — See "Industrial Works."

**O., Cincinnati** — Apartment — Belvidere Building Co., Burnet and McMillan Sts., plans 11 story, rein.-con. and stone, Reading Rd. $2,000,000. C. H. Ferber, 1024 Dixie Terminal Blgd., archt.

**O., Cincinnati**—Store and Loft—J. C. Avery Estate, 211 East 4th St., plans rein.-con., Race St. $300,000. H. Hake, Telephone Bldg., archt.

**O., Cleveland**—Apartment—M. Goodman, 201 Ulmer Bldg., having sketches made by M. Altschuld, 5116 Woodland Ave., 3 story, 42 x 127 ft., brick, East 143rd St. and Lake Shore Blvd. $150,000.

**O., Cleveland**—Apartment—A. Permut, 11405 Saywell Ave., having plans prepared by A. F. Janowitz, 811 Prospect Ave., 3 story and basement, 36 x 146 ft., brick, Hampshire and Coventry Rds. $150,000.

**O., Cleveland** — Apartments — L. Witt, 1635 Belmar Rd., had plans prepared two 2 story and basement, 43 x 95 ft., brick and timber, 1362 West Blvd. $150,000. Private plans.

**O., Cleveland**—Church—W. C. Jansen, archt., Electric Bldg., soon takes bids 1 story and basement, 72 x 127 ft., brick and steel, East 81st St., for St. Lawrence Catholic Church, 3547 East 80th St. $150,000. Taking bids now for foundation. Noted Feb. 21.

**O., Cleveland**—Commercial—J. J. Klein, Engineers Bldg., having plans prepared by F. W. Bail, Hanna Bldg., 4 story and basement, 83 x 130 ft., brick, steel and concrete, West 3rd and Front Sts. $250,000.

**O., Cleveland**—Commercial and Apartment—Syndicate, c/o A. W. Haiman, Society for Savings Bldg., plans commercial building and apartment, each 3 story, brick, Carnegie Ave. and East 86th St. $200,000. Morris & Weinberg, 3608 Euclid Ave., archts.

**O., Cleveland**—Hospital—Mt. Sinai Hospital, 1800 East 105th St., having sketches made by C. R. Greco, 11 Beacon St., Boston, Mass., addition. $1,000,000.

**O., Cleveland**—Hotel—Hotel Hollenden Co., c/o H. Mack, pres. East 6th St. and Superior Ave., had plans prepared by Watson Co., 4614 Prospect Ave., remodeling brick and stone, East 6th St. and Superior Ave. Noted Jan. 11, 1923.

**O., Cleveland**—Store—G. S. Rider & Co., archts., Century Bldg., soon takes bids 3 story and basement, 67 x 96 ft. and 35 x 85 ft., brick and steel addition, West 25th St., for J. Meckes & Sons Co., 1920 West 25th St. $150,000.

**O., Cleveland Heights** (Warrensville, P. O.)—Apartment—S. Newman, 10710 Drexel Ave., Cleveland, plans 3 story and basement, brick and timber, Overlook Rd., here. $150,000. A. F. Janowitz, 811 Prospect Ave., Cleveland, archt.

**O., Columbus**—Store—M. Rieser having plans prepared by J. Q. Adams, Southern Hotel, 3 story and basement, 84 x 97 ft., brick and terra cotta, Main and 3rd Sts. $300,000.

**O., Steubenville**—Theatre—Biggio Bros. Co. soon takes bids new theatre. $250,000.

**Mich., Detroit**—Apartment—J. I. Weinberg, archt., 401 Congress Bldg., preparing plans 3 story and basement, 72 x 133 ft. brick and steel, plain foundation, Helen Ave. $150,000. Owners name withheld.

**Mich., Muskegon** — High School — Bd. Educ. having plans prepared by H. H. Turner, 923 Michigan Trust Bldg., Grand Rapids, 3 story and basement, 230 x 265 ft. rein.-con., brick and steel, plain foundation. $750,000.

**Mich., Detroit** — Mercantile — Crowley Milner Co., Gratiot Ave. and Farmer St.

Buildings (Continued)

having preliminary plans prepared by Smith, Hinchman & Grylls, 800 Marquette Bldg., 10 story and basement, about 80 x 100 ft. rein.-con., brick and steel, plain foundation, Library Ave.

**Mich., Detroit**—Office and Warehouse—General Electric Co., 1501 Dime Bank Bldg., having plans prepared 5 story and basement, 75 x 200 ft. rein.-con. and brick, plain foundation, 3rd and Antoinette Sts. $175,000. Private plans.

**Mich., Highland Park** (Detroit, P. O.)—Hospital—Highland Park General Hospital having plans prepared by G. W. Graves, 41 John R St., Detroit, 3 and 4 story, rein.-con. and brick, plain foundation. $200,000.

**Ill., Chicago**—Apartment—T. R. Bishop, archt., 35 South Dearborn St., plans 3 story and basement, fireproof, 6446 Kenwood St. $375,000.

**Ill., Chicago** — Club House — Edgewater Athletic Club, c/o H. Lincoln Co., 161 West Harrison St., plans 8 story and basement, fireproof, North Side. $1,500,000.

**Ill., Chicago**—Convent—Owner, c/o J. W. McCarthy, archt., 139 North Clark St., plans 2 story and basement, 25 x 165 ft., fireproof, 6337 Wentworth St. $250,000.

**Ill., Chicago** — Hospital — Presbyterian Hospital, 1755 West Congress St., having plans prepared by Berlin & Severn, 19 South La Salle St., 8 story and basement, 35 x 45 ft., fireproof addition, Congress and Wood Sts. $250,000.

**Ill., Granite City** — Lodge and Office — Knights of Pythias, c/o P. S. Pender, 2319 D St., soon takes bids 5 story and basement, brick, stone and concrete. K. M. Viththum & Co., Inc., 605 North Michigan St., archt.

**Wis., Antigo**—Hotel—S. J. McMahon, 425 East Water St., Milwaukee, and F. Cremer, 392 61st St., Milwaukee, plan 3 story and basement, brick and concrete addition to Hotel Butterfield, plain foundation. $150,000. Engineer and architect not selected.

**Wis., Jefferson**—High and Grade School—School Bd., R. K. Henry, clk., having plans prepared by Van Ryn & De Gelleke, archt., 114 Grand Ave., Milwaukee, and J. E. Helmerl, associated archt., 220 34th St., Milwaukee, 3 story, brick and tile, plain foundation. Noted Apr. 10.

**Wis., Kenosha**—High School—School Bd. E. F. Powers, secy., had plans prepared by J. D. Chubb, 109 North Dearborn St., Chicago, 3 story and basement, brick, tile and concrete, plain foundation. $1,000,000. Noted Apr. 10.

**Wis., Madison** — Hospital — St. Marys Hospital Assn., W. F. Lorenz, pres., Brooks St., making plans and takes bids in May, 4 story, 250 x 300 ft., brick, rein.-con. and steel, plain foundation. $750,000. Private plans.

**Wis., Madison**—Laboratory—Natl. Chemical Research Council, c/o J. H. Mathews, Chemistry Bldg., plans 4 story, 100 x 125 ft., brick, rein.-con. and steel, plain foundation. $750,000. Engineer and architect not selected.

**Wis., Milwaukee**—Apartment—Biltmore Grande Realty Co., c/o S. Loftus, 3220 Grand Ave., having preliminary plans prepared by Rosman & Wierdsma, 490 Bway., 5 or 7 story, brick and concrete, plain foundation, Grand Ave. $500,000.

**Wis., Shawano**—Grade School—School Bd., R. W. Davies, supt., having plans prepared by Parkinson & Dockendorff, Linker Bldg., La Crosse, 2 story and basement, brick, tile and concrete, plain foundation. $175,000.

**Wis., Wausau** — Hotel — Hotel Wausau Co., c/o W. Schroeder, 86 Michigan St., Milwaukee, having plans prepared by Holabird & Roche, 104 South Michigan Ave., Chicago, 8 story and basement, brick and concrete, plain foundation. Scott St. $1,000,000. Noted Dec. 27.

**Wis., West Allis**—Exhibition—State Fair Assn. had plans prepared by E. G. Schroeder Co., engrs., 405 Bway., Milwaukee, 1 story, 250 x 300 ft., brick and steel, plain foundation. $150,000.

**Wis., West Bend**—School—Holy Angels Congregation, J. E. Heyde, pastor, having plans prepared by O'Meara, Hills & Krajewski, Merchants Natl. Bank Bldg., St. Paul, Minn., 2 story and basement, brick and tile, plain foundation. $150,000. Noted Jan. 17.

**Minn., Appleton**—High School—Bd. Educ. plans 2 story and basement, 75 x 140 ft., brick and steel. $150,000. A. L. Smith, clk. Engineer and architect not selected.

**Minn., Minneapolis** — Home — General Womens Auxiliary, Twin City Shriners Hospital, M. Iverson, chn., 3805 Aldrich Ave. S., having preliminary sketches made by Bertrand & Chamberlin, 616 Northwestern Bank Bldg., 2 story and basement, rein.-con., brick and tile, 20th Ave. and East River Blvd. $150,000.

**Minn., Minneapolis**—Home—Volunteers of America, 708 Globe Bldg., plans 2 story and basement, rein.-con., brick and tile, 40th St. and Thomas Ave., $150,000. G. R. Smith, chn. advisory com.

**Minn., St. Paul**—Apartment—Hamline-Snelling Holding Corp. having plans prepared by Baucher & Orth, 600 Shubert Bldg., 3 story and basement, 120 x 132 ft., wood joist, rein.-con., brick and tile, Snelling Ave. and Blair St. $150,000.

**Minn., St. Paul**—School—Dept. Educ. rejected bids opened Apr. 8, 3 story and basement, rein.-con., brick and tile, York St. and Walsh Ave. Noted Apr. 17.

**Kan., Great Bend**—High School—Bd. Educ. voted $212,000 bonds for school. T. W. Williamson & Co., 312 Central Natl. Bank Bldg., Topeka, archts. Noted Apr. 10.

**Kan., Kansas City**—Dormitory—Western University, 27th St. and Parkway, having plans prepared by Rose & Peterson, 434 Brotherhood Bldg., 4 story and basement, 152 x 156 ft., brick and stone. $200,000.

**Neb., Omaha**—Medical Arts—Madison-Kedzie State Bank, had plans prepared by W. S. Crosby, 17 North LaSalle St., Chicago, and takes bids about May 1, com-

## SEWERS—CHICAGO, ILL.

Following are lowest three bids opened Mar. 13, by Sanitary Dist. of Chicago, for Elmwood Park Outfall, (A) American Sewer & Drain Constr. Co., Kenilworth St. and Central Park Ave.; (B) Mid-City Eng. Corp.; (C) Carmine Roberts. The unit bids were as follows:

| | A | B | C |
|---|---|---|---|
| 1,030 lin.ft. sewer 8 ft. interal width | $42 47 | $51.00 | $50.00 |
| 3,970 lin.ft. sewer 6 ft. interal width | 31 01 | 37.00 | 30.00 |
| 4,950 lin.ft. 24 in. tile pipe sewer | 19 22 | 14.33 | 20.00 |
| 100 lin.ft. 18 in. tile pipe sewer | 5 87 | 10 23 | 6 00 |
| 450 lin.ft. 15 in. tile pipe sewer | 5 07 | 8 98 | 5 00 |
| Junction chamber at Harlem Ave. (lump sum) | 1,322 67 | 2,200.00 | 1,500.00 |
| Junction chamber at 78th Ave. (lump sum) | 1,301 33 | 1,500.00 | 1,000.00 |
| Outfall (lump sum) | 2,153 88 | 2,500.00 | 7,000.00 |
| Pumping station (lump sum) | 23,803 63 | 15,950.00 | 22,000.00 |
| Railroad crossing (lump sum) | 1,339 33 | 2,600.00 | 1,000.00 |
| 220 lin.ft. manholes on concrete sewers | 8 24 | 15.00 | 10.00 |
| 220 lin.ft. manholes on tile pipe sewers | 9 76 | 16.00 | 10.00 |
| 138,000 lb. reinforcing steel | 08 | 05½ | 06 |
| 20,000 lb. iron castings and miscellaneous metals | 10 | 10 | 15 |
| 2 cu.yd. brickwork | 50.00 | 50.00 | 20.00 |
| 5 cu.yd. rock excavation | 5.00 | 5.00 | 5.00 |
| 50 cu.yd. additional excavation | 3.00 | 13.00 | 3.00 |
| 10 cu.yd. additional concrete class A | 16.00 | 16.00 | 16.00 |
| 20 cu.yd. additional concrete class B | 14.00 | 14.00 | 14.00 |
| 20 cu.yd. additional concrete class C | 13.00 | 13.00 | 13.00 |
| 50 M. ft. b.m. additional sheeting and bracing | 40.00 | 40.00 | 40.00 |
| Extended totals | $314,755 | $319,517 | $323,545 |

## WATER-WORKS—KANSAS CITY, MO.

Following are lowest three bids opened Mar. 11, by M. H. Raming, city purch. agt., for additional water supply, (1) Missouri Valley Tunnel, Contr. No. 1, (A) Tibbets & Pleasant, 229 North Nogales St., Tulsa, Okla., (awarded contract); (B) Morrow & Son and Phelan-Shirley Co., Omaha, Neb.; (C) B. Hayes, Inc., Detroit, Mich.; (2) East Bottoms and Turkey Creek Tunnels, Contr. No. 2, (A) Byrne Bros. Constr. Co., 358 East 115th St., Chicago, (awarded contract); (B) Booth & Flinn, Ltd., Pittsburgh; (C) T. Kelley & Sons, Inc., Kansas City, Mo. The unit bids were as follows:

| Contract No. 1 | A | B | C |
|---|---|---|---|
| 15,000 cu.yd. earth excavation in open cut | $1 48 | $6.00 | $4.00 |
| 100 cu.yd. rock excavation in open cut | 1 64 | 10.00 | 20.00 |
| 20 lin.ft. sinking shafts in earth | 63.00 | 60.00 | 250.00 |
| 610 lin.ft. sinking shafts in rock | 98.00 | 80.00 | 250.00 |
| 46,000 cu.yd. excavation in tunnel | 15 96 | 14.00 | 18.00 |
| 100 cu.yd. enlargement of shaft and tunnel in rock | 25 61 | 14.00 | 20.00 |
| 100 M.ft. b.m. permanent timbering in tunnel | 87.00 | 160.00 | 80.00 |
| Handling water in shafts and tunnel during construction (lump sum) | 44,000.00 | 40,000.00 | 20,000.00 |
| 1,200 cu.yd. concrete masonry in shafts | 27.50 | 18.00 | 30.00 |
| 19,000 cu.yd. concrete masonry in tunnel | 17.10 | 17.50 | 7.00 |
| 1,300 cu.yd. concrete masonry in open cut | 12.85 | 18.00 | 30.00 |
| 100 cu.yd. excess concrete masonry in shafts and tunnel | 5.00 | 5.00 | 5.00 |
| 100 cu.yd. dry packing in tunnel | 6.56 | 8.00 | 10.00 |
| 400 lin.ft. drilling holes in rock or masonry | .82 | 4.00 | 2.50 |
| 5,000 lin.ft. steel pipe for grouting | .82 | 1.00 | 1.00 |
| Making connections for grouting (1,000) | 3.28 | 3.00 | 1.00 |
| 800 ton sand for grout | 3.67 | 6.00 | 2.50 |
| 2,000 cu.yd. mixing and placing grout | 9.10 | 12.00 | 20.00 |
| 40,000 bbl. portland cement | 2.60 | 3.40 | 2.50 |
| 100,000 lb. steel for reinforcing concrete | .05 | .05 | .10 |
| 300 lin.ft. 12-in. vitrified pipe | 5.74 | 3.00 | 3.33 |
| 50,000 lb. caring for and setting metal work furnished by city | .019 | .06 | .20 |
| Locker houses (lump sum) | 2,460.00 | 2,800.00 | 7,500.00 |
| Hydrostatic test (lump sum) | 3,850.00 | 5,000.00 | 20,000.00 |
| Extended totals | $1,395,412 | $1,412,300 | $1,484,500 |

| Contract No. 2 | A | B | C |
|---|---|---|---|
| 600 cu.yd. earth excavation in open cut | $2.75 | $3.90 | $2.00 |
| 206 lin.ft. sinking waterway shafts in earth | 350.00 | 247.00 | 278.00 |
| 504 lin.ft. sinking waterway shafts in rock | 350.00 | 187.00 | 275.00 |
| 290 lin.ft. sinking construction shafts in earth | 150.00 | 237.50 | 350.00 |
| 420 lin.ft. sinking construction shafts in rock | 150.00 | 187.00 | 316.00 |
| 50,000 cu.yd. excavation in tunnel | 18.15 | 20.00 | 19.25 |
| 100 cu.yd. enlargement of shaft and tunnel in rock | 10.95 | 10.00 | 25.00 |
| 100 M.ft. b.m. permanent timbering in tunnel | 100.00 | 100.00 | 150.00 |
| Handling water in shafts and tunnel during construction (lump sum) | 4,000.00 | 100.00 | 0,000.00 |
| 1,000 cu.yd. concrete masonry in shafts | 30.00 | 20.00 | 22.26 |
| 22,000 cu.yd. concrete masonry in tunnel | 16.00 | 15.00 | 20.00 |
| 300 cu.yd. concrete masonry in open cut | 20.00 | 15.00 | 20.00 |
| 100 cu.yd. excess concrete masonry in shafts and tunnel | 5.00 | 5.00 | 5.00 |
| 100 cu.yd. dry packing in tunnel | 5.00 | 5.00 | 10.00 |
| 400 lin.ft. drilling holes in rock or masonry | 1.00 | .50 | 2.00 |
| 6,000 lin.ft. steel pipe for grouting | .50 | .65 | .50 |
| Making connections for grouting (2,000) | 1.50 | .50 | 1.50 |
| 1,000 ton sand for grout | 3.75 | 4.00 | 2.10 |
| 3,000 cu.yd. mixing and placing grout | 4.10 | 16.00 | 10.00 |
| 50,000 bbl. portland cement | 3.00 | 2.75 | 3.50 |
| 90,000 lb. steel for reinforcing concrete | .07 | .06 | .07 |
| 500 lin.ft. 12-in. vitrified pipe | 2.00 | 2.00 | 1.00 |
| 90,000 lb. caring for and setting metal work furnished by city | .07 | .03 | .03 |
| Locker houses (lump sum) | 15,000.00 | 15,000.00 | 20,000.00 |
| Hydrostatic test (lump sum) | 4,000.00 | 10,000.00 | 5,000.00 |
| Extended totals | $1,873,295 | $1,890,185 | $2,199,438 |

Buildings (Continued)

pleting 13 story, 66 x 132 ft., 17th and Dodge Sts. $400,000. Steel frame erected.

**Neb., Omaha**—Schools—Election in May to vote on $2,700,000 bonds, grade and high schools.

**Wyo., Casper** — High School — Garbutt, Weidner & Sweeney, archts., Consolidated Royalty Bldg., takes bids about June 1, Junior High School, 4 story, 272 x 312 ft., rein.-con. and brick, South Elm St. $700,000. Noted Oct. 11.

**Mo., Columbia**—Church—Northern Presbyterian Conference, c/o First Presbyterian Church, plans 2 story and basement, rein.-con. and local stone. $300,000. Engineer and archite t not named.

**Mo., Hannibal**—Schools—Bd. Educ. takes new bids within 2 weeks remodeling and additions to Douglass and South Grade Schools. $150,000. Former bids rejected. Beuttler & Arnold, 405 Grain Exch., Sioux City, Ia., archts. Noted Apr. 10.

**Mo., St. Louis**—Hospital—Hoener, Baum & Froese, archts., 3605 Laclede Ave., takes bids about June 1, 4 story, 65 x 160 ft., rein.-con., brick and stone, Carter and Newstead Aves., for Christian Hospital, 3540 Grand Blvd. $275,000. Grading contract awarded to Fruin-Colnon Contg. Co., Merchants Laclede Bldg. Noted Apr. 24.

**Mo., St. Louis**—Hotel—Hotel Jefferson Co., 12th and Locust Sts., soon takes bids 13 story and basement, 220 x 275 ft., rein.-con., brick, stone, terra cotta and steel addition, Locust and 13th Sts. $3,000,000. T. P. Barnett & Co., Arcade Bldg., archts.

**Ark., Hot Springs** — Hospital — Mosaic Templers of America having preliminary plans prepared by J. P. Almand, Boyle Bldg., Little Rock, 6 story and basement, rein.-con., brick and stone, Malvern Ave. $300,000.

**Ark., Little Rock**—Warehouse—Terminal Warehouse Co., 812 East 2nd St., soon takes bids 4 story and basement, 100 x 305 ft., rein.-con. and brick. $200,000. W. Dill, 605 Boyle Bldg., archt.

**Ark., Paragould**—High School—Bd. Educ. having preliminary plans prepared 2 story and basement, rein.-con., brick and stone. $160,000. Engineer and architect not selected.

**Ark., Texarkana** — City Hall — Voted $200,000 bonds for city hall, Walnut and 3rd Sts. Noted Mar. 27.

**Ark., Texarkana** — Municipal — Voted $200,000 bonds municipal building, 3rd and Walnut Sts. $200,000. Engineer and architect not selected.

**Ark., Texarkana**—School—Voted $200,000 bonds, school improvements. C. H. Page & Bros., Austin Natl. Bank Bldg., Austin, Tex., archts.

**Tex., Amarillo** — College — Northwest Texas Conference Methodist Church, c/o G. W. Shearer, plans new college. $1,000,000. Engineer and architect not selected.

**Tex., Breckenridge**—Courthouse—Stephens Co., E. F. Ritchey, co. judge plans 4 story and basement, brick and concrete, court house and jail. $300,000. Engineer and architect not selected.

**Tex., Ft. Worth**—Store—J. I. Burgess, Forest Park Blvd., having plans prepared by R. O. Jameson, engr., Southwestern Life Bldg., Dallas, and W. G. Clarkson & Co., archts., First Natl. Bank Bldg., 6 story and basement, concrete and brick, Houston St. $325,000.

**Tex., Houston**—Art Museum—Houston Museum of Fine Arts, J. T. Scott, secy., plans 2 wing additions, brick and stone. $200,000. Engineer and architect not announced.

**Tex., Houston** — Warehouse — K. H. Easter, Second Natl. Bank plans concrete and brick warehouse. $150,000.

**Tex., Mineral Wells** — School — Election May 8, $250,000 bonds, brick school. Address J. F. Wright, secy. Bd. Trustees.

**Tex., San Antonio**—Hotel—G. W. Hahn, 405 Meerscholdt St., having preliminary sketches made by Seutter & Simons, Moore Bldg., rein.-con., brick and stone, plain foundation, about 10 story and basement, Star, Bonham and Bowie Sts. $500,000.

**Okla., Gutherie**—High School—Bd. Educ. rejected bids 2 story and basement, Harrison St. Will revise plans and readvertise. $178,000. Noted Apr. 3.

**Okla., Stillwater**—Dormitory—State Bd. Agriculture, Oklahoma City, making preliminary plans 3 story and basement, rein.-con., brick and stone, here. $150,000.

**Okla., Tulsa** — Hospital — Forest Park Hospital Assn., having preliminary plans prepared by W. E. Moore, engr., 511 Mayo Bldg., and A. C. Fabry, archt., 213 Commercial Bldg., 5 story and basement, 80 x 110 ft., rein.-con., brick, steel and stone. $350,000.

**Colo., Denver**—High School—School Dist., Canon City, having plans prepared by E. Groves, Foster Bldg., 3 story, brick and concrete. $200,000.

**Colo., Denver**—Shrine Temple—El Jebel Shrine, 1770 Sherman St., plans 3 story, East 16th Ave. and Grant St. $600,000. Engineer and architect not selected.

**Calif., Anaheim**—High School—Anaheim Union High School Dist. plans to vote on $200,000 bonds for high school.

**Calif., Bell** — High School — Huntington Park Union High School Dist. having preliminary plans prepared by Train & Williams, Western Mutual Life Bldg., Los Angeles, branch high school, concrete and brick, here. $200,000 or more.

**Calif., Berkeley** — Auditorium and High School—City plans to vote on $1,000,000 bonds, auditorium and high school. E. M. Hann, city clk.

**Calif., Carmel** — Hotel — E. A. Shipley plans fireproof, Ocean and San Antonio Aves. $200,000.

**Calif., Crescent City** — Hotel — H. W. Webber, representing interests, plans fireproof. To exceed $150,000. Engineer and architect not selected.

**Calif., Los Angeles**—Exchange—Southern California Telephone Co., 740 South Olive St., having plans prepared by J. and D. Parkinson, Title Insurance Bldg., 3 story (ultimately 7 story) and basement, 75 x 100 ft., brick and steel, Meredian St.

**Calif., Los Angeles**—Office—H. Siskin, c/o J. M. Cooper, archt., Marsh-Strong Bldg., having palns prepared 13 story and basement, 80 x 175 ft., rein.-con., Main St. near 7th St. To exceed $400,000.

**Calif., Los Angeles**—Store and Office—E. Fesser, et al., 1232 West 5th St., having preliminary plans prepared by C. F. Skilling, Bradbury Bldg., 12 to 14 story, 125 x 175 ft., fireproof, probably steel and concrete, 6th St.

**Calif., Los Angeles** — Store, Office and Garage—Rampart Blvd. Co., c/o F. Dorn, archt., Marsh-Strong Bldg., having plans prepared 2 story, 150 x 207 ft., brick, 6th St.

**Calif., Los Angeles**—Store and Office—Stanton, Reed & Hibbard, archts., Metropolitan Bldg., preparing plans 2 story and basement, 125 x 160 ft., brick, Westmoreland and 7th Sts. $150,000. Owner's name withheld.

**Calif., Los Angeles**—Theatre and Store—Gable & Wyant, archts., 634 South Western Ave., preparing plans 2 story, 95 x 145 ft., brick or rein.-con., 118th Ave. and Main St. Owner's name withheld.

**Calif., Los Angeles**—Theatre, Store and Office—West Coast Theatres, Inc., et al., Knickerbocker Bldg., plans 6 story, fireproof, East Colorado St. $500,000 or more.

**Calif., Monterey**—Theatre and Store—Golden State Theatre & Realty Co., c/o M. Jorgenson, 110 Sutter St., San Francisco, having plans prepared, fireproof, here. $150,000.

**Calif., Monrovia**—Theatre and Store—F. R. Alexander, c/o Colonial Theatre, plans fireproof, West White Oak Ave. $150,000. Engineer and architect not selected.

**Calif., Oakland**—Church—First Congregational Church of Oakland, c/o J. G. Howard, archt., 1st Natl. Bank Bldg., having working plans prepared, Class A, probably rein.-con., Harrison and 26th Sts. $250,000.

**Calif., Pomona**—Apartment Hotel—Pomona Community Hotel Co., having plans prepared by S. C. Lee, Douglas Bldg., Los Angeles, 3 story, 145 x 235 ft., brick, Holt and Towne Aves. $250,000. Noted Jan. 3.

**Calif., Redondo Beach**—Schools—Redondo Beach School Dist. plans to vote on $275,000 bonds for schools.

**Calif., Sacramento**—Hotel—J. A. Clecak, 807 J St., representing eastern interests, plans 4 story or more, fireproof, 11th and I Sts. $150,000 or more. Engineer and architect not selected.

**Calif., Sacramento** — Office, Store and Theatre—M. T. Jorgensen, archt., 110 Sutter St., preparing plans brick, theatre will seat 1,500, Oak Park Dist. $150,000. Owner's name withheld.

**Calif., San Francisco**—Theatre—Crescent Theatres, Inc., 644 Bway., having plans prepared by A. Schroepfer, 68 Post St., 1 story rein.-con., Jackson St. $150,000.

**Calif., San Francisco** — Theatre, Office and Store—Golden State Theatre & Realty Corp., c/o M. T. Jorgensen, 110 Sutter St., having plans prepared Class A, probably rein.-con., Irving St. near 15th Ave. $150,000.

**Calif., San Gabriel**—Mausoleum—Western Mausoleum Co., c/o Starrett & Payne, archts., Western Mutual Life Bldg., Los Angeles, having plans prepared 1 story, rein.-con., granite and stone, here. $155,000.

**Calif., San Jose**—Store and Office—Saint Claire Realty Co., c/o Weeks & Day, archts., 315 Montgomery St., San Francisco, having plans prepared 5 story and basement, rein.-con., 1st and San Carlos Sts. $400,000.

**Calif., San Leandro** (Branch of Oakland) — Theatre — J. Hoorwitz, c/o Hayward Theatre, Hayward, plans fireproof, Ward St., here. $150,000. Engineer and architect not selected.

**Que., Montreal**—Exchange—Bell Telephone Co. of Canada, Notre Dame St. W., plans 3 story, 80 x 90 ft. rein.-con. and brick, Papineau Ave. $150,000.

**Que., Westmount**—School—Comrs. plan 2 story, 110 x 200 ft. addition to Roslyn School, rein.-con., brick and stone, Western Ave. $150,000. Ross & McDonald, Belmont St., Montreal, archts.

**Ont., Toronto** — Bank — Royal Bank of Canada, Royal Bank Bldg., plans 3 story and basement, rein.-con., brick and steel, plain foundation, Danforth Ave. $150,000. Engineer and architect not selected.

**Ont., Ottawa**—Archives—Dominion Government, Dept. Pub. Wks., Parliament Bldg., plans about 5 story and basement, rein.-con., brick and steel addition, plain foundation, $275,000. R. C. Wright, Parliament Bldg., archts.

## BIDS DESIRED

**Mass., Revere** — School — May 6, by School Com., 2 story, 113 x 170 ft., brick and timber, Ward 2. $150,000. E. J. Wilson, 109 State St., Boston, archt.

**N. Y., Industry**—Hospital—May 14, by W. Whitney, pres. Bd. Mgrs. State Agricultural & Industrial School, rebuilding hospital. S. W. Jones, Albany, state archt.; adv. E. N.-R. May 1.

**Pa., Bethlehem**—Station—May 5, by K. M. Marchison, archt., 101 Park Ave., New York City, 1 story, 40 ft. high, 105 x 136 ft. brick limestone and tile, plain foundation, for Lehigh Valley R.R., 228 South 3rd St., Phila., G. T. Hand, ch. engr., and Phila. & Reading R.R., Terminal, Phila. S. F Wagner, ch. engr.

**Pa., Canonsburg**—High School—G. W. Brugger, archt., Canonsburg, taking bids 1 story and basement, 62 x 216 ft. brick and steel for Bd. Educ. $150,000.

**Pa., Phila.**—Apartment—See "Contracts Awarded."

**D. C., Wash.**—Church and Community—May 6, by Hamline Methodist Episcopal Church, 1500 9th St., church and community house, stone, 16th and Allison Sts. $300,000. C. W. Bolton & Son, Schaff Bldg., Phila., archts. Noted Jan. 31.

**Fla., Tampa**—Office—May 15 (change of date), by V. M. Antuono, 1316 Spring St., and F. O. Adams, Jr., Grand Theatre, 16 story, brick and steel, Lafayette and Tampa Sts. Hentz, Reid & Adler. 92½ North Forsyth St., Atlanta, Ga., archts. Noted Apr. 17.

**La., Monroe**—Court House—May 14, by Quachite Parish Police Jury, 3 story, rein.-con., brick and stone. $400,000. J. W. Smith, Monroe, archt.

**La., New Orleans**—Hotel—May 15, by Favrot & Livaudais, archts., Hibernia Bank Bldg., constructing new Roosevelt Hotel, 17 story, 170 rooms, Baronne St., for Guarantee Development Co., Roosevelt Hotel. $2,000,000.

**La., New Orleans** — Office — Union Indemnity Co., Union St., taking bids 15 story, brick and limestone, Baronne and Gravier Sts., $1,750,000 to $2,000,000. M. Goldstein and Favrot & Livaudais, Hibernia Bank Bldg., archts.

**O., Cleveland**—Apartment—W. S. Ferguson Co., 1900 Euclid Ave., taking bids and opens same about May 10, 4 story and basement, brick, steel and concrete, East 90th St. and Euclid Ave., for 90th Euclid Co., c/o architects. $250,000. Noted Mar. 20.

**O., Cleveland**—Church, Gymnasium and Sunday School—First Evangelical Church, 841 Thornhill Dr., taking bids 1 story, brick, stone, steel and concrete, Thornhill Dr. $150,000. Corbusier & Lenske, B. F. Keith Bldg., archts. Noted Feb. 28.

Buildings (Continued)

**O., Cleveland** — Theatre and Garage — Seventy-Ninth Hough Co., c/o L. Abrams, Engineers Bldg., taking bids 1 story, 60 x 116 ft. and 116 x 240 ft., brick and steel, East 79th St. and Lexington Ave. $150,000. Steffens & Steffens, Fidelity Mortgage Bldg., archts.

**O., Columbus**—Office—May 26, by N. L. Packard, Cook & H. H. Heistand, archts., Eaton, 4 story and basement, 62 x 187 ft., rein.-con. and brick, South 3rd St., for Dispatch Printing Co. $400,000.

**O., Independence**—School—May 9, by Independence Village School Dist., 2 story and basement, 98 x 143 ft., brick, steel and concrete addition. $150,000. Fulton & Taylor, 8120 Euclid Ave., Cleveland, archts.

**O., St. Clairsville**—Hospital—May 12, by Belmont Co., tuberculosis sanatorium, National Rd., approximately 4½ mi. west of here. C. W. Bates, 77 12th St., Wheeling, W. Va., archt. Noted Feb. 14.

**Ind., Gary**—Lodge—Masonic Lodge taking bids 4 story and basement, 83 x 103 ft., rein.-con., brick and steel, 6th St. $150,000. J. T. Hutton & Son, Hammond Bldg., Hammond, archts.

**Ind., Michigan City** — Business — F. W. Warren, 719 Franklin St., taking bids 5 story and basement, 83 x 165 ft., rein.-con., brick and steel, Franklin St. $300,000. Ahlgrim & Boonstra, Michigan City, archts.

**Mich., Detroit** — Amusement — Crane & Kiehler, archts., 542 Griswold St., taking bids and opens same about May 15, 1 and 2 story, 200 x 300 ft. rein.-con., brick and steel, plain foundation, Jefferson Ave., for Jefferson & Belle Isle Realty Co., 1254 Griswold St.

**Mich., Detroit** — Office — R. H. Marr, archt., McKerchey Bldg., taking bids and opens same about May 8, 7 story and basement, 50 x 80 ft. rein.-con. and brick, plain foundation, Brainard St. $150,000. Owners name withheld.

**Mich., Ironwood**—Store and Office—N. A. Nelson, archts., Glassner Bldg., taking bids and opens same about May 5, 2 story and basement, 84 x 120 ft. concrete and brick, plain foundation, for Seaman Building Corp., 113 South Suffolk St. $150,000.

**Mich., Pontiac**—High School—May 9, by Bd. Educ., R. Hazelton, business mgr., 3 story and basement, 93 x 229 ft. and 78 x 129 ft. rein.-con., brick, steel and stone, plain foundation, Sanford St. $500,000. Malcomson & Higginbotham, 1217 Grswold St., Detroit, archts.

**Ill., Chicago** — Apartment — B. Harris, 3130 Palmer Sq., taking bids 3 story and basement, 90 x 160 ft., fireproof, Central Park, near Sunnyside. $150,000. E. Steinborn, 111 North Dearborn St., archt.

**Ill., Chicago**—Apartment—H. K. Holsman, archt., 37 South Wabash St., taking bids 4 story and basement, fireproof, 56th and University Sts. $150,000. Owners name withheld.

**Ill., Chicago** — Store and Office — A. S. Alschuler, archt., 28 East Jackson St., taking bids 3 story, 142 x 145 ft., fireproof, Roosevelt and St. Louis Sts., for D. Schetnitz, c/o architect. $300,000. Noted Apr. 3.

**Ill., River Forest** (Oak Park P. O.)—Church, etc.—May 6, by Holmes & Flinn, 8 South Dearborn St., Chicago, 1 and 2 story, 61 x 112 ft. and 85 x 95 ft., brick, stone and concrete, church and parish house, etc., for First Presbyterian Church, here. $200,000. Former bids rejected. Noted Apr. 3.

**Wis., Shorewood** (Milwaukee P. O.) — High School—May 9, by School Dist. 4, H. Kuechenmeister, clk., 3 story and basement, 97 x 180 ft. (1st unit) brick, tile and concrete, plain foundation, Oakland Ave. $285,000. Herbst & Kuenzli, 114 Grand Ave., Milwaukee, archts. Noted Dec. 27.

**Wis., White Fish Bay**—Grade School—May 10 (extended date), by School Dist. 1, W. A. Klatte, clk., 2 story and basement, 92 x 116 ft., brick, concrete and tile, plain foundation. $150,000. M. Tullgren & Sons, 425 East Water St., Milwaukee, archts. Noted Apr. 24.

**Ia., Tipton**—School—May 12, by C. Miller, secy. Bd. Educ., 2 story and basement, rein.-con., brick and stone, plain foundation. $265,000. Thomas, McLenan & Thomas, 527 West 27th St., Des Moines, archts. Noted Mar. 31.

**Minn., Duluth**—Hotel—May 10 (extended date) by M. Tullgren & Sons, archts., 425 East Water St., Milwaukee, Wis., 13 story and basement, brick and concrete, plain foundation, for Hotel Duluth Co., c/o W. Schroeder, 86 Michigan St., Milwaukee. $1,250,000. Noted Apr. 24.

**Kan., Lawrence**—Hotel—May 12, by W. E. Hulse & Co., archts., Hutchinson, 6 story and basement, 100 x 117 ft., brick and stone, for Stamey Hotel Co., here. $180,000.

**S. D., Platte**—School—May 7, by Bd. Educ., 2 story and basement, 63 x 149 ft. rein.-con., brick, stone and tile. $150,000. Perkins & McWayne, Sioux Falls, archts.

**Ark., El Dorado**—Church—W. B. Boone, archt. Eldorado, and R. H. Hunt & Co., associated archts., James Bldg., Chattanooga, Tenn., taking bids and opens same about May 7, 2 story and balcony, brick and stone. $200,000. Noted Mar. 6.

**Calif., Marysville** — Hotel — E. Glass, archt., Underwood Bldg., San Francisco, taking bids and opens same about May 19, 5 story and basement, to contain 140 rooms, rein.-con., here, for Marysville Hotel Co., c/o architect. Noted Apr. 3.

## BIDS RECEIVED

**O., Akron**—City Hall—Bd. Control, Apr. 21, 8 story, brick and steel, South High St., from Moran Constr. Co., Terminal Bldg., $659,386. Noted Apr. 17.

**Colo., Denver** — High School — School Dist., 4 story, 280 x 417 ft., general contract, from Arvid Olson, Denham Bldg., $1,058,314; heating, from McCarty-Johnson Heating and Eng. Co., 1440 Curtis St., $149,948; plumbing, from Johnson & Davis, 427 15th St., $43,889; electric wiring, from J. Fisher, 213 15th St., $38,492. Noted Mar. 27.

**Calif., Los Angeles** — Club — Womens Athletic Club, c/o Allison & Allison, archts., Hibernian Bldg., 7 story and basement, 150 x 156 ft., rein.-con., general contract, from Macdonald & Driver, Douglas Bldg., $486,500 (not including stone and sheet metal work, marble, etc.). Noted Mar. 20.

**Calif., Santa Monica** — High School — Santa Monica Junior High School Dist., brick and frame, junior high school, general contract from A. Johnson, 1007 South Grand Ave., Los Angeles, $145,970. Noted Apr. 3.

## CONTRACTS AWARDED

**Mass., Orange**—School—Bd. Educ., brick, steel and stone, plain foundation, to Hoyt Constr. Co., Holyoke. Archts. est. $150,000.

**N. Y., Haverstraw** — Club — Tooker & Marsh, archts. and engrs., 101 Park Ave., New York City, 2 story, brick, steel and stone, plain foundation, here, to Dykens & Seaton, Haverstraw, for B. P. O. E. Archts. est. $150,000. Noted Apr. 3.

**N. Y., Jamaica**—School—Bd. Educ., 500 Park Ave., New York, P. S. 95, 90th Ave., here, to H. H. Harris, $424,880. Noted Apr. 3.

**N. Y., Lockport** — Schools — Bd. Educ., schools on High and Clinton Sts., to Laur & Mack Constr. Co., 1400 College Ave., Niagara Falls, $312,000. Noted Feb. 21.

**N. Y., New York**—Apartment—Lexington Ave. Building Corp., 111 Bway., 15 story, brick, steel and stone, plain foundation, 151 East 79th St., to George A. Fuller, 175 5th Ave. Archts. est. $500,000.

**Pa., Ardmore** — Bank — Ardmore Natl. Bank, 1 story and basement, 32 ft. high, 40 x 93 ft. and 24 x 53 x 60 ft. brick and steel, plain foundation, to F. G. Stewart, 1520 Locust St., Phila. Archts. est. $150,000. Noted Apr. 3.

**Pa., Camp Hill**—Clubhouse—Seeburger & Rabenold, archts., Weightman Bldg., Phila., 2½ story and basement, here, to A. R. Raff, 1635 West Thompson St., Phila., for Manufacturers Club, Broad and Walnut Sts., Phila. Archts. est. $150,000. Noted Apr. 10.

**Pa., McKees Rocks**—School—Bd. Educ., 2 story and basement, brick and steel, to J. G. Fullman Co., E. E. Trust Bldg., Pittsburgh. Archts. est. $150,000.

**Pa., Merion** (Phila., P. O.)—Apartment—Merion Apartment Co., 217 South Broad St., Phila., 4 story and basement, 40 x 290 ft., 40 x 100 ft., and 40 x 75 ft., Idris Rd., here, to C. C. Pace, Cynwyd. Archts. est. $500,000.

**Pa., Phila.** — Apartment — Rose Constr. Co., North American Bldg., will build 15 story and basement, 63 x 173 ft. brick and steel, 21st and Walnut Sts., by day labor. $2,500,000. Ballinger Co., archts., 12th and Chestnut Sts., taking sub bids. Noted Apr. 10.

**Pa., Phila.**—Exchange—Bell Telephone Co., 17th St. and Parkway, 3 story and basement, 119 x 127 ft. brick, steel and tile, plain foundation, 16th and Jefferson Sts., to J. N. Gill Constr. Co., City Centre Bldg. Archts. est. $600,000. Noted Mar. 27.

**Pa., Phila.** — Nurses Home — Mt. Sinai Hospital, 5th and Reed Sts., 6 story and basement, 38 x 125 ft. rein.-con. and terra cotta, plain foundation, to W. Lukens Co., 735 Cherry St., $231,000.

**Pa., Washington**—School—Bd. Educ., 2 story and basement, 85 x 152 ft., to C. Shimp, Martins Ferry, O. Archts. est. $150,000.

**Md., Baltimore** — Apartment — Parker, Thomas & Rice, archts., Union Trust Bldg., 4 story, 69 x 112 ft., brick, plain foundation, Charles St. and Wyndhurst Rd., to L. L. Chambers, 36th St. and Roland Ave., $150,000, for S. Oliver, Standard Oil Bldg. Noted Apr. 17.

**D. C., Wash.**—Office—Natl. Geographic Society, 16th and M Sts., N. W., office building, 3rd and R Sts., N. E., to Skinker & Garrett, 1416 F St. N. W., $300,000.

**D. C., Wash.** — School — St. Martins Church, parochial school, T St. to Lipscomb Building Corp., 1406 G St. N. W., $169,500. Noted Apr. 24.

**W. Va., Fairmont** — Apartment and Garage—Owens Bottle Co., 2 story, 26 x 153 ft., and 4 story, 75 x 102 ft. apartments and 1 story, 18 x 152 ft. garage, to Z. L. Bergeron, Fairmont. Est. cost $150,000.

**W. Va., Wheeling**—Exhibition—West Virginia Fair Grounds Assn., 1 story, 100 x 300 ft., concrete and steel, on Fair Ground, to R. R. Kitchen & Co., Bae Mar Pl. Archts. est. $160,000.

**N. C., Greensboro**—College—North Carolina College for Women, music building, steel, concrete and limestone, to J. A. Jones Constr. Co., Realty Bldg., Charlotte, $185,123. Noted Mar. 13.

**N. C., Greensboro**—Music—North Carolina College for Women, 3 story, 88 x 110 ft., brick, on campus, to S. A. Jones Constr. Co., Charlotte, $185,123.

**N. C., Wilson**—Court House—Wilson Co., 4 story and basement, court house and jail, to W. P. Rose, Goldsboro, $305,000. Noted Mar. 13.

**N. C., Winston-Salem** — Market — City, new market house, to Southeastern Constr. Co., Trust Bldg., Charlotte, $152,500.

**Fla., Miami**—Hotel—A. O. Yearian, 3 story, 85 x 146 ft., rein.-con. and steel, North West 8th and Miami Sts., to J. T. Teller, Miami. Archts. est. cost plus basis $185,000.

**Fla., Tampa** — Office — W. F. Stovall, Tampa, 12 story, 55 x 105 ft., Tampa and Twigg Sts., to G. A. Miller, 28 Petteway Bldg., $750,000.

**Miss., Biloxi**—School—Bd. Educ., East End Intermediate School, to O. E. Thompson, Biloxi; Fourth Ward School, to Collins Bros., Biloxi. Archts. est. $210,000. Noted Feb. 28.

**Tenn., Nashville** — Hotel — C. Lorigan Hotel Co., Atlanta, Ga., 12 and basement, 80 x 175 ft., cut stone, concrete, brick and steel, 6th and Deaderick Sts., here, to Sou Ferro Concrete Constr. Co., 50 East Ellis St., Atlanta, Ga., approximately $1,500,000. Noted Apr. 24.

**Ky., Ashland**—Store and Warehouse—B. Williamson & Co., 5 story and basement, 80 x 142 ft., 16th and Greenup Sts., to H. W. Cox, Ashland, cost plus basis. Est. $150,000.

**O., Ashtabula**—Store—Carlisle Co., c/o L. T. Carlisle, pres., 161 Main St., 4 story and basement, 60 x 130 ft., brick, to Johnson & Erickson, Ashtabula. Archts. est. $150,000. Noted Feb. 14.

**O., Silverton** (mail Pleasant Ridge, branch Cincinnati P. O.) — St. Thersa Home, 2021 Auburn Ave., Cincinnati, 3 story, rein.-con. and brick, here, to M. Penker & Sons, 123 Valencia St., Cincinnati, $350,000. Noted Mar. 6.

**O., Toledo**—Garage—Director Pub. Serv., 3 story, 100 x 141 ft., rein.-con. and brick, concrete pile foundation, St. Clair St., general contract to Watts Suhrbier Co., Miami St., $109,940. Noted Feb. 21.

**Ind., Indianapolis**—Lodge—I. O. O. F. Lodge 465, 3 story and basement, rein.-con., brick and steel, Shelby St., to Service Constr. Co., 301 Castle Hall Bldg., $150,000.

**Mich., Detroit**—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 78 x 132 ft. rein.-con., brick and steel addition, plain foundation, West End Ave., to A. W. Kutsche, 333 State St., $178,300. Noted Apr. 3.

**Mich., Detroit**—School—Bd. Educ., 1354 Bway. Ave., 2 story and basement, 83 x 163 ft. rein.-con., brick and steel, plain foundation, Garden Ave., to Culbertson & Kelly, 872 West Milwaukee Ave., $207,237. Noted Apr. 10.

Buildings (Continued)

**Mich., Flint**—School—Bd. Educ., Union School Dist., 4 story, 65 x 150 ft., 71 x 160 ft. and 104 x 110 ft. rein.-con., brick and steel, plain foundation, Crapo Ave., Oak Grove, to Spence Bros., Saginaw. Archts. est. $750,000. Noted Jan. 24.

**Mich., Lincoln Park**—School—J. G. Kastler & Co., archts., 523 Detroit Savings Bank Bldg., Detroit, 2 story and basement, 65 x 120 ft., rein.-con., brick and steel, plain foundation, to E. E. DeLange, 7040 Farnsworth Ave., Detroit.

**Mich., Royal Oak**—School—Royal Oak Dist. 3, 2 story and part basement, 16 room, rein.-con., brick and steel, plain foundation, Lincoln and Washington Aves., to W. W. DeLange, 7040 Farnsworth St., Detroit, $200,000.

**Ill., Aurora**—High School—Bd. Educ., 3 story and basement, general contract to R. Iben, Anheuser-Neil Bldg., Peoria, $112,840; plumbing, heating, etc., to Ruddy Bros., 61 South La Salle St., Aurora, $48,150.

**Ill., Chicago**—Apartment—S. L. Cohen, 231 North Wells St., 3 story, 100 x 120 ft., fireproof, 1643-51 Chase St., to J. Gaunn, 133 West Washington St., $175,000.

**Ill., Chicago**—Apartment—Lund & Gammage, 77 West Washington St., 4 story, 95 x 126 ft., fireproof, 4600-08 Beacon St., to A. Lindstrom, 77 West Washington St. $175,000.

**Ill., Chicago** — Apartment — S. Monson, 7922 South Laflin St., will build 3 story, 100 x 100 ft. fireproof, 7241-47 Constance St., by day labor. $150,000.

**Ill., Chicago**—Church—St. Ita Catholic Church, Magnolia and Catalpa Sts., 1 story, 77 x 185 ft., fireproof, 5500-6 Bway., to Duval, Herrling & Co., 140 South Dearborn St. $400,000.

**Ill., Chicago**—Hotel—Bartelstein & Gold, c/o Dubin & Eisenberg, archts., 14 West Washington St., 4 story and basement, 91 x 126 ft., fireproof, 52nd Ave. and 54th St., to Kadeshewitz & Buchel, 1342 Independence Blvd. Archts. est. $300,000.

**Wis., Kimberly**—High and Grade School—School Dist. 3, M. Kettenhofen, dir., 2 story and basement, 70 x 145 ft., brick, tile and concrete plain foundation, to H. J. Selmer Co., McCartney Natl. Bank Bldg., Green Bay. $150,000. Noted Mar. 20.

**Wis., Madison**—Hospital—Bd. Health, 2 story, 45 x 150 ft., brick, rein.-con. and steel, to J. H. Findorff Co., 601 West Wilson St. $150,000. Noted Apr. 3.

**Wis., Marshfield** — Church — First Presbyterian Congregation O. L. Black, pastor, 2 story, 50 x 120 ft. and 35 x 47 ft., brick and stone, plain foundation, to Schafer & Olson, 222 Bay St., Chippewa Falls. $150,000. Noted Jan. 10.

**Wis., North Milwaukee**—High School—Joint Dist. 17, E. Neumann, clk., 2 story and basement, brick and tile, plain foundation, to D. B. Danielson, 874 Layton Blvd., Milwaukee. $150,000. Noted Apr. 24.

**Minn., Minneapolis** — Administration — State Bd. Control, St. Paul, 4 story and basement, rein.-con., brick, tile and stone, State University, general contract to J. and W. A. Elliott, 906 Lumber Exch. here, $400,000. Noted Apr. 17.

**Mo., Canton**—Dormitory—Culver-Stockton College, 3 story, 39 x 195 ft., rein.-con. and brick, to W. R. Oder, Canton. Archts. est. $150,000. Noted Jan. 24.

**Mo., Columbia** — Dormitory — Stephens College, rein.-con., brick and stone, to Murch Bros. Contg. Co., Ry. Exch. Bldg. St. Louis. Archts. est. $150,000. Noted Sept. 27.

**Mo., St. Louis**—Church—St. Peters Evangelical Lutheran Church, Swan and Newstead Aves., 2 story and basement, brick, stone and terra cotta, Kingshighway Blvd., to T. Steinmeyer, International Life Bldg. $150,000.

**Tex., Ft. Worth**—Library—Texas Christian University, 2 story and basement, 80 x 110 ft., brick, concrete and stone, to J. T. Taylor & Co., Burkburnett Bldg., $150,000. Noted Mar. 13.

**Okla., Bristow** — School — Bd. Educ. 2 story and basement, 76 x 145 ft., rein.-con. and brick, to Manhattan Constr. Co., Bristow, $105,000. Noted Mar. 20.

**Calif., Los Angeles**—Exchange—Southern California Telephone Co., 740 South Olive St., 4 story and basement, rein.-con., Washington St. and Grand Ave., to Macdonald & Kahn, Spring-Arcade Bldg., $165,000. Noted Jan. 10.

**Calif., Los Angeles**—Hotel—S. Cole, 1156 El Centro St., 3 story and basement, 115 x 150 ft., brick, Vine St., to L. T. Mayo, Black Bldg., $150,000.

**Calif., Oakland**—Office and Store—F. W. Ray, c/o W. C. Lowe, archt., Monadnock Bldg., San Francisco, 10 story and basement, rein.-con., 19th St. and Bway., here, to Palmer & Clinton, Monadnock Bldg., San Francsco, $450,000.

**Calif., San Francisco**—Apartment—J. J. Kingwell, Butler Bldg., will build 6 story and basement, rein.-con., Hyde and Ellis Sts., by day labor. $150,000.

**Ont., Oshawa** — Collegiate — Bd. Educ., Dominion Bank Chambers, 3 story and basement, 15 room, rein.-con., brick and steel, plain foundation, to J. W. Bowser, Confederation Life Bldg., Toronto. Noted Jan. 10.

**Ont., Toronto**—Apartment—W. J. Lescombe, 2 Kingston Rd., 5 story and basement, rein.-con., brick and steel, plain foundation, Kingston Rd., general contract to H. T. Green, 223 Greenwood Ave.; masonry to W. Kritzer, 32 Swanich Ave.; plumbing to G. T. Herriott, 1263 Greenwood Ave. Archt. est. $150,000.

**Ont., Toronto**—Church—Eglington Ave. Methodist Church, Eglington Ave., 1 story, 60 x 100 ft. rein.-con., brick and steel, plain foundation, Sheldrake Blvd., general contract to Witchall & Son, 156 St. Helens Ave.; carpentry to J. D. Young & Son, 835 College St.; plumbing and heating to Purdy-Mansell Ltd., 63 Albert St. Total est. $150,000.

# Federal Government Work

### PROPOSED WORK

**N. Y., New York**—Dredging—U. S. Engineers 2nd Dist., 616 Army Bldg., rejected bids dredging in Shoal Harbor, Compton Creek and Keyport Harbor. Noted Mar. 27.

**Fla., Jacksonville**—Dredging—U. S. Engineer Office, plans dredging in St. Johns River, here.

**Ky., Louisville**—Pumps—U. S. Engineer P. O. Box 72, soon takes bids three 15 in. pumps for pump boat, capacity 6,500 g.p.m. against 37 ft. head.

**Ky., Owensboro**—Rip-Rap Stone—U. S. Engineer, P. O. Box 72, Louisville, plans to purchase 2,500 tons rip-rap stone for Dam 46, Ohio River.

### BIDS DESIRED

**Del., Wilmington**—Bridges—June 25, by U. S. Engineer Office, Wilmington, 3 highway bridges over inland waterway from Delaware River to Chesapeake Bay, Delaware and Maryland; adv. E. N.-R. May 1.

**Fla., Jacksonville**—Bulkhead and Pier—May 19, by U. S. Engineer Office, War Dept., Wash., D. C., 214 lin.ft. bulkhead and 300 ft. pier. Noted Mar. 27.

**Fla., Jacksonville**—Dredging—May 17, by U. S. Engineer Office, dredging in St. Johns River, and depositing dredged material in foundation of Wards Bank Training Wall; adv. E. N.-R. May 1.

**Ill., Canton**—Boiler, etc.—May 22, by Treas. Dept., Supervising Architect, Office, Wash., D. C., furnishing and installing 1 horizontal smokeless fire box boiler at U. S. Post Office, here; adv. E. N.-R. May 1.

**Neb., Fremont**—Boiler, etc.—May 20, by Treas. Dept., Supervising Architect Office, Wash., D. C., removing present boiler and furnishing and installing new horizontal smokeless fire box heating boiler, etc. at Post Office, here; adv. E. N.-R. May 1.

**Ore., Portland**—Tenders—May 28, by U. S. Engineer Office, 216 New Post Office Bldg., Portland, two 65 ft. diesel powered tenders; adv. E. N.-R. May 1.

### BIDS RECEIVED

**Miss., Water Valley**—Post Office—Treas. Dept., Office Supervising Architect, Wash., D. C., 2 story post office, here, from Virginia Eng. Co., 330 28th St., Newport News, Va., $39,443. Noted Mar. 27.

**Ky., Owensboro**—Clam Shell Buckets—U. S. Engineer, P. O. Box 72, Louisville, furnishing six 1½ yd. and two 2 yd. clam shell buckets, from Pidgeon Thomas Iron Co., 94 North 2nd St., Memphis, Tenn., $6,110. Noted Apr. 24.

**Ill., Chicago** — Quarters — Treas. Dept., Supervising Architect Office, Wash., D. C., constructing quarters at U. S. Marine Hospital, from McLaughlin-Slattery Co., Chicago, Ill., $70,250. Noted Apr. 3.

**New Mexico** — Roads — E. S. Wheeler, dist. engr. Bureau Pub. Rds., U. S. Dept. Agriculture, 242 West Washington St., Phoenix, Ariz., 11.448 mi. Canoncito-Peces Highway in Sante Fe Natl. Forest, Sante Fe and San Miguel Counties, from Lee Moor Contg. Co., Two Republics Bldg., El Paso, Tex., 28,110 cu.yd. crushed rock surfacing Condition A $2.90, finishing shoulders and subgrade $100 per mi., etc., total $82,664. Noted Mar. 6.

**California**—Road—C. H. Sweetser, dist. engr. U. S. Bureau Pub. Rds., Main St., San Francisco, surfacing Mineral Sect. of Red Bluff-Susanville Highway, Tehama Co., from Englehart Paving Co., Eureka, Calif., $70,891. Noted Apr. 10.

### CONTRACTS AWARDED

**R. I., Providence**—Dredging—U. S. Engineer, dredging in Providence River and harbor, 280,000 cu.yd. excav., to J. S. Packard Dredging Co., 1004 Turks Head Bldg., $58,520. Noted Mar. 13.

**N. Y., New York**—Ash Handling System—Bureau Yards & Docks, Navy Dept., Wash., D. C., pneumatic ash handling system for power plant at Navy Yard, to Guarantee Constr. Co., 140 Cedar St., $30,775 (120 days). Noted Mar. 6.

**D. C., Wash.**—Reservoirs—U. S. Engineer, 250 Old Land Office Bldg., 1st high reservoir to Parsons & Hyman, Equitable Bldg., $268,490; 2nd high reservoir to M. I. O'Connor, Northampton, Mass., $262,813. Noted Mar. 27.

**Ky., Louisville**—Cement—U. S. Engineer, P. O. Box 72, cement, Lot 3, to Atlas Portland Cement Co., 134 South LaSalle St., Chicago, Ill., $95,900. Noted Apr. 17.

# Unclassified

### PROPOSED WORK

**Peace Tower—Wash., D. C.**—Natl. Carrilon Assn., H. K. Bush-Brown, pres., 1729 G St., N. W., had sketches made for tower, 360 ft. stone, base 60 ft., 54 bell chimes, $3,000,000. P. P. Cret, Otis Bldg., Phila., Pa., archt.

**Golf Course, etc.—Louisville, Ky.**—Bd. Park Comrs., City Hall, plans golf course and other improvements in Shawnee Park. $50,000.

**Subway—Sterling, Ill.**—City and Chicago & Northwestern R.R., West Jackson Blvd. and Franklin St., Chicago, plans rein.-con. subway, here. City to vote on $90,000 bonds: $60,000 for subway and $30,000 for changes in gas and water mains, electric lines, etc. Railroad to pay $440,000. Total cost $530,000. A. G. Hubliard, city engr. W. J. Towne, ch. engr.

**Stadium—Omaha, Neb.**—Creighton University, 25th and California Sts., c/o J. McCormick, plans stadium. $175,000. J. Latenser & Sons, 732 Peters Trust Bldg., archts.

**Pipeline—Texas**—Pan-Tex Pipe Line Co., Amarillo, plans 6 in. pipe line from Potter Co. oil fields to Amarillo, also improvements to Allen refinery. $200,000. Private plans.

**Transmission Lines — New Braunfels, Tex.**—See "Industrial Works."

**Gas Mains—Montreal, Que.**—Montreal Light, Heat & Power Co., Craig St. W., plans 22,331 ft. 4 and 6 in. c.i. gas mains in 21 streets and avenues, $48,627.

**Breakwater — Collingwood, Ont.** — Dept. Pub. Wks., Parliament Bldg., Ottawa, takes bids in summer breakwater, wood and pile construction, here. $25,000. K. M. Cameron, ch. engr.

### BIDS DESIRED

**Heating and Ventilating Apparatus — Brooklyn, N. Y.**—May 12, by W. H. Gompert, supt. School Buildings, Flatbush Ave. extension and Concord St., heating and ventilating apparatus in addition to Erasmus Hall High School, Bedford Ave., for Bd. Educ., 500 Park Ave., New York.

**Fire Alarm System, etc. — Kings Park, N. Y.**—May 21, by State Hospital Comn., Albany, fire alarm system, etc., in Kings Park State Hospital, here. S. W. Jones, state archt.; adv. E. N.-R. May 1.

**Waterfront Improvements—Daytona, Fla.**—May 20, by city, waterfront improvements, Contrs. 1, 2 and 3. Harrington, Howard & Ash, Kansas City, Mo., consult. engrs.; adv. E. N.-R. May 1.

**Sea Wall, etc.—Tampa, Fla.**—June 6, by Comrs. Hillsborough Co., 2½ mi. concrete sea wall, hydraulic fill, sidewalk, curb, etc.; adv. E. N.-R. May 1.

**Foundation—Cleveland, O.**—See "Buildings under Proposed Work."

**Signal System, etc.—Minneapolis, Minn.**—May 6, by F. S. Gram, city purch. agt., electric signal system, standard specifications, 42,292 lin.ft. cable, for Fire Dept.; two 7-ton gas locomotives for Water Dept. N. W. Elsberg, city engr.

Unclassified (Continued)

**Stadium—Austin, Tex.**—May 7, by University of Texas, 118 x 435 ft., concrete stadium. $500,000. H. M. Greene Co., North Texas Bldg., Dallas, archts. Noted Apr. 24.

### BIDS RECEIVED

**Plumbing, etc.—Albany, N. Y.**—Plumbing, etc. in Public Schools, 1 to 24 inclusive, from A. J. Eckert Co., 103 North Lake St., $119,939. Engrs. est. $125,000.

**Column Foundations—New York N. Y.**—Transit Comn., 49 Lafayette St., Apr. 25, column foundations, retaining walls and embankment for Westchester Ave. Yard, Routes 19 and 20, from P. T. Cox Contg. Co., 154 Nassau St., $204,040. Noted Apr. 17.

**Ramps — New York, N. Y.** — Transit Comn., 49 Lafayette St., Apr. 24, permanent ramps at Times Sq. station, Routes 4 and 36, Sect. 3, Agreement "CT," from Fox Reynolds Co., 81 East 125th St., $9,600. Noted Apr. 17.

**Subway — New York, N. Y.** — Transit Comn., 49 Lafayette St., Apr. 25, Sect. 2 of Route 70, a part of Rapid Transit Railroad, from Oakdale Constr. Co., 93 Amity St., Flushing, $3,950,000. Noted Apr. 10.

**Electric Light System, etc.—Phila., Pa.**—G. H. Biles, dir. Pub. Wks., and Bd. Trustees Free Library, Room 216 City Hall, electric light, power and signal systems in Free Library, 20th, Wood and 19th Sts., from W. V. Pangborne & Co., 1927 West Montgomery St., $188,600. Noted Mar. 27.

**Transit Sheds—Los Angeles, Calif.**—Los Angeles City Harbor Comn., 2 story, steel, from Lynch-Cannon Co., 1027 Chapman Bldg., $852,400. Noted Mar. 13.

### CONTRACTS AWARDED

**Subway Entrance—New York, N. Y.**—Transit Comn., 49 Lafayette St., additional entrance to Canal St. Sta. (Loop Line) of Bway.-4th Ave. Rapid Transit R.R., to Gustin Morris Contg. Co., Anabel Pl. and Creek St., Long Island City, $39,000. Noted Apr. 24.

**Grand Stand** — Norristown, Pa. — J. B. Long, engr., Boyer Arcade, 61 x 92 ft. rein.-con. grand stand, Roosevelt Field, Markley and James Sts., to Anthracite Bridge Co., 300 Genot St., Scranton, $51,200, for Bd. Educ. Noted Apr. 3.

**Foundation—Phila., Pa.**—Phila. Electric Co., 10th and Chestnut Sts., excavation and building foundation for first of 3 units of new generator station, 290 x 300 ft., along Delaware River foot of Wheatsheaf Lane, to Stone & Webster, 147 Milk St., Boston, Mass. J. T. Windrim, archt., Commonwealth Bldg., preparing plans for superstructure. Will mature next year.

**Pits, etc.—Arvilla, W. Va.**—Norfolk and Western R.R. Co., Norfolk, Va., 2 concrete engine pits and 1 concrete inspection pit, here, to H. A. Lucas, Bluefield, W. Va., $50,000.

**Stadium — Morgantown, W. Va.** — West Virginia University Stadium Corp., 102 x 360 ft. and 82 x 360 ft., to Foundation Co., 120 Liberty St., New York City. Noted Apr. 10.

**Park Improvements, etc.—Evansville, Ind.**—City, park improvements, club house, locker and assembly rooms, Helfrich Field, to Scarborough-Davies Constr. Co., Old St., $25,000. Noted Mar. 6.

**Street Lighting System—Cuba City, Wis.**—Ornamental street lighting system, to Donovan Constr. Co., Cuba City, $25,000.

**Foundation—Des Moines, Ia.**—Des Moines Electric Co., 802 Locust St., substructure foundation work for 1st unit of 3 unit power plant, rein.-con., plain and wood pile foundation, South Des Moines, to A. H. Neumann Co., 519 Hubbell Bldg. $150,000.

**Street Lighting System — Los Angeles, Calif.** — Ornamental lighting system on Pasadena Ave. between Ave. 61 and Ave. 54, to J. C. Rendler, Inc., 625 South Main St., $26,988. Noted Mar. 20.

**Tunnel — Los Angeles, Calif.** — Pacific Electric Co., Pacific Electric Bldg., tunnel, 4,230 ft. long, 28 ft. wide, 22 ft. high, concrete lined, (rock, sand, cement and structural steel furnished by owner), also 6 story (ultimately 8 story), 118 x 160 ft. garage, to Twohy Bros., Sharon Bldg., San Francisco, $3,500,000. Work will be done under supervision of E. C. Johnson, ch. engr. and M. C. Halsey, structural engr. of Pacific Electric R.R. Co.

**Wharf—Oakland, Calif.**—Alaska Packers, Inc., 101 California St., San Francisco, wharf, 750 ft. long, cement, creosoted piles, lumber, rails and fittings furnished by owner, here, to A. W. Kitchen, 110 Market St., San Francisco, $150,000. Noted May 24, 1923.

**Sea Wall—Crystal Beach, Ont.**—Buffalo & Crystal Beach Corp., 438 Main St., Buffalo, N. Y., 1,000 ft. concrete sea wall, to Pigott Healy Constr. Co., 36 James St. S., Hamilton, $43,000.

## ROAD WORK—ROCKFORD, ILL.

Bids were opened Mar. 19, by H. Short, clk., Winnebago Co., for constructing 3.9323 mi. road, Sect. X-15d, State Aid No. 14, (A) G. Welch, Beloit, Wis. (awarded contract); (B) Milburn Bros., Rockford; (C) A. R. Garnock, Eau Claire, Wis. The unit bids were as follows:

| | A | B | C |
|---|---|---|---|
| 27,800 cu.yd. earth excavation | $0 60 | $0.65 | $0.65 |
| 27,000 sq.yd. earth shoulders | 07 | 10 | 08 |
| 41,525 sq.yd. P. C. concrete pavement | 1 64 | 1 55 | 1.65 |
| 87.9 cu.yd. class A concrete | 23 00 | 25 00 | 22.00 |
| 8.2 cu.yd. class X concrete | 23 00 | 25 00 | 30.00 |
| 1,491 lb. reinforcing steel | 05 | 06 | 06 |
| 200 lin.ft. 24 in. sewer pipe | 2 32 | 3 50 | 3.25 |
| 46 lin.ft. 18 in. sewer pipe | 1 70 | 2 00 | 2.50 |
| 96 lin.ft. concrete curb | 40 | 1 00 | 50 |
| 576 lin.ft. guard fence | 70 | 1 00 | 65 |
| 66 lin.ft. 12 in. sewer pipe | 90 | 1 50 | 1 50 |
| 2 section markers | 15 00 | 15 00 | 15 00 |
| 600 lin.ft. curb and gutter | 70 | 1 20 | 1 10 |
| 21 sq.yd. mesh reinforcement | 20 | 30 | 30 |
| Moving bridge at Sta. 28 (lump sum) | 650 00 | 2,500 00 | 500 00 |
| 3 section corner markers | 10 00 | 15 00 | 20 00 |
| 3.9323 mi. seeding | 20 00 | 30 00 | 4 00 |
| Extended totals | $91,212 | $92,608 | $93,716 |

# Material and Equipment

### PROPOSED WORK

**Cement — Alabama** — State Hy. Dept., Montgomery, rejected bids 66,000 bbl. cement. W. S. Keller, state highway engr. Noted Apr. 3.

**Road Machinery, etc.—Burlington, Wis.**—A. Zechel, city clk., soon takes bids road machinery, incl. graders.

**Tractors—St. Paul, Minn.**—H. W. Austin, city purch. agt., rejected bids Mar. 4, two 10-ton tractors. Noted Mar. 13.

### BIDS DESIRED

**Sand Grit, etc.—Long Island City, N. Y.**—May 5, by M. E. Connolly, pres. Queens Boro, Boro Hall, 5,000 cu.yd. sand grit or broken stone chips of trap rock, to Bureau of Highways. Former bids rejected. Noted Apr. 10.

**Rolls, Crushers, etc. — Bowling Green, Ky.**—E. B. Crump, 1144 State St., in market for rolls, crushers, belt conveyor, etc. for rock asphalt crushing plant.

**Switchboard, etc.—Cleveland, O.**—May 9, switchboard and switchboard equipment for 15,000 k.w. turbo generator, 120,000 lb. of 000 to 10 weatherproof copper wire, 900 series multiple transformers also subway and pole type constant current regulators.

**Road Oil—Madison, Wis.**—Taking bids on approximately 60,000 gal. road oil for 1924, to be asphaltic of flash point of 80 degrees C. E. E. Parker, City Hall, engr.

**Truck—Long Prairie, Minn.**—May 5, by L. J. Ramstad, aud. Todd Co., one Graham Bros. truck of 1½- to 2-cu.yd. dump body with hydraulic hoist. A. M. Graves, Long Prairie, engr.

**Road Oil—St. Paul, Minn.**—May 6, by State Hy. Dept., 1246 University Ave., 110,000 gal. road oil. C. M. Babcock, engr.

**Road Machinery—Texas**—May 15, by State Bd. Control, c/o R. B. Walthall, 125 four horse graders with 7 ft. blades, also 16 tractor drawn graders with 8 ft. blades, approximate weight to be 4,000 lb., extra attachments to be listed and described. J. W. Francis, equipment engr.

**Road Roller—Brackettville, Tex.**—Kinney Co. taking bids 10 ton gasoline road roller.

**Tractor, etc.—Clarksville, Tex.**—May 12, by W. McMaster, aud. Red River Co., one 5 ton caterpillar type tractor, and one 8- to 10-ft. blade grader with engine hitch.

**Pipe — Dallas, Tex.** — Taking bids 200 tons 10 in. and 180 tons 12 in., B. B. & S. or De Lavaud pipe. E. A. Kingsley, city engr.

**Tractors—McKinney, Tex.**—May 14, by Collin Co., 4 caterpillar type tractors for 12 ft. blade grader. F. W. Cawthon, co. engr.

**Pipe—Snyder, Tex.**—Taking bids 15,118 ft. 4- to 8-in. c.i. pipe. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

**Dredging Equipment — Windsor, Ont.** — St. Clair Dredge & Contract Co. Ltd., Windsor, in market for complete dredging equipment.

### BIDS RECEIVED

**Sand Grits—Brooklyn, N. Y.**—E. Riegelmann, boro pres., Boro Hall, Apr. 23, 4,000 cu.yd. sand grits, from Highgrade Builders Supply Co., 6th St. and 2nd Ave., $9,560.

**Boiler Equipment—Greensboro, N. C.**—North Carolina College for Women, conduits, steam fittings, boiler connections, etc., in connection with new mechanical plant at above, to Riggs Distler & Co., 216 North Calvert St., Baltimore, Md., $96,000; boiler equipment, to Walsh & Weidner, Main and Scymr Sts., Chattanooga, Tenn., $52,000.

**Brick, Reinforcing Steel, etc.—St. Paul, Minn.**—H. W. Austin, city purch. agt., Apr. 15, 1,144 sq.yd. 3-in. vertical fibre brick from Purington Paving Brick Co., East Galesburg, Ill., $1.59 per sq.yd.; 64.946 tons straight reinforcing steel for Water Dept., from Speers-Jevne, 832 Builders Exch., Minneapolis, $3,934; 13 tons c.i. flange pipe and specials, from South Park Fdry. & Machine Co., 23 East 6th St., $140 per ton. Noted Apr. 10.

**Fordson Tractors — St Paul, Minn.** — H. W. Austin, city purch. agt., Apr. 8, 10 Fordson tractors, from Central Garage, 9 West Exchange St., Muessel Motor Co., 1800 University Ave., Owens Motor Sales, 709 University Ave., Nolan Iron Co., 70 West 4th St., and W. S. Williams Motor Co., 128 Concord St., all bid $12,580. Noted Apr. 3.

### CONTRACTS AWARDED

**Trucks—St. George N. Y.**—J. A. Lynch, pres. Richmond Boro, Boro Hall, one 1½ ton and one 2 ton automobile trucks with dump bodies, to Kruger Motor Car Co., $2,585 and $2,685 respectively. Noted Apr. 24.

**Bucket Loaders, Street Flusher, Street Sweeper, etc.—Minneapolis, Minn.**—F. S. Gram, city purch. agt., 2 gasoline operated bucket loaders for gravel, to W. H. Kuhlmann & Co., 605 West Bway., $1,644 each; street flusher, to Gallon Iron Wks. & Mfg. Co., 234 Plymouth Bldg., $2,135 for "Etnyre" make; motor-driven pickup street sweeper, to Elgin Sales Corp.; 10 South La Salle St., Chicago, $6,461; Wehr grader with Fordson tractor, to S. W. Eddy Co., 3032 Hennepin Ave., $1,479; 5,270 pieces reinforcing steel ranging from ½ in. x 18 ft., to 1 in. x 24 ft. for Sewer Dept., to C. A. P. Turner Co., 627 1st Ave. N., $5,975. Noted Apr. 3 and 10.

**Graders—St Paul, Minn.**—Ramsey Co., one 12-ft. heavy dirt road grader to Austin Western Road Mchy. Co., 375 Cedar St., $1,848; one 8-ft. road grader with roller bearings, to Russell Grader Mfg. Co., 2005 University Ave. S. E., Minneapolis, $730. Noted Mar. 27.

**Paving Materials—St. Paul, Minn.**—H. W. Austin, city purch. agt., 388 tons asphalt for paving boulevard along westerly side of Lake Como, and 40 tons asphalt filler, to Standard Oil Co. of Indiana, 1927 Southwest 4th St., Minneapolis, $20 per ton and $24.70 per ton respectively. Noted Apr. 10.

**Scrapers and Graders, etc.—Washburn, N. D.**—McLean Co., 2,664 lin.ft. 12-24 in. corrugated metal culverts to Wheeling Corrugating Co., 155 26th St., S. E. Minneapolis, Minn., six 5 ft. extra heavy fresnos, six 9 ft. drag scrapers and 6 patrol graders, to Northwestern Sheet & Iron Wks., Wahpeton, and Russell Grader Mfg. Co., 2005 University Ave. S. E., Minneapolis, Minn.

# SEARCHLIGHT SECTION

## OFFICIAL PROPOSALS

*Copy:* Official Proposals reaching our New York Office by 10 A. M., Tuesday can usually be printed in the issue out Thursday.

**Rate:**
**40 Cents a Line an Insertion**

*Plans and Specifications* for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E.N.-R.

### OFFICIAL PROPOSALS

Bids May 13.

## Roads and Bridges

STATE HIGHWAY COMMISSION
Richmond, Va.
April 21, 1924.

Sealed bids will be received at the offices of the State Highway Commission, State Office Building, Richmond, until 10:30 a.m. Tuesday, May 13th, 1924, for the construction of the following:

1. PROJ. F-143G-RT. 10—Three Miles East of Bedford to Bedford, Bedford County. Approx. 3.0 miles of Bit. Mac. surfacing only. No Special Design Bridges. Work will not be started on this project until the contract which is now under way has advanced sufficiently to allow a surfacing plant on the project.

2. PROJ. F-260B-RT. 31—Ashland—2.3 Miles South, in Hanover Co. 2.3 miles of Sheet Asphalt Surface on Concrete Base, Alt. Bids on 8"-6"-8" concrete, and 4" Gravel sub-base, 4" asphaltic conc. base and 1½" Sheet Asphalt Top. Approx. 7,860 cu.yds. Exc., 300 cu.yds. borrow, 152 lin.ft. pipe, 111 cu.yds. "A" conc., 6,831 lbs. reinf. steel. No special design bridges. This work will be let in conjunction with project F-358A.

3. PROJ. F-265B-RT. 111—End Proj. 265A to 3.6 Mi. towards Raven, in Buchanan Co., 3.6 Mi. 16' Bituminous Macadam, approx. 24 Ac. clearing and grubbing, 74,681 cu.yds. excavation, 2,190 lin.ft. pipe, 84 cu.yds. "A" conc., 280 cu.yds. "B" conc., 6,970 reinf. steel, 13,510 lin.ft. wood, gd. rail. No Special Design Bridges.

4. PROJ. F-294B-RT. 21—5 Mi. E. Luray-Rappahannock Co., Line, 1.6 Mi. Bituminous Macadam, approx. 15,600 cu. yds. excavation, 700 lin.ft. pipe, 29 cu.yds. "B" conc., 3,650 lin.ft. wood gd. rail. No Special Design Bridges. Page Co.

5. PROJ. F-310B-RT. 12—Lawrenceville (Sta. 117-46) to Sta. 280-70, Brunswick Co., 3.1 Mi. in length, 1.5 Mi. 18'-8"-6"-8" conc., 1.6 Mi. 20' Gravel roadway, approx. 3 Ac. clearing, 21,000 cu.yds. exc., 540 lin.ft. pipe, 136 cu.yds. "A" conc., 103 cu.yds. "B" conc., 8,960 lbs. reinf. steel, 30 lin.ft. tile drain, 520 lin.ft. gd. rail. No Special Design Bridges. Right is reserved to eliminate gravel surface.

6. PROJ. S-323B-RT. 20—Phoenix-Charlotte C. H., (Sta. 633-00 to 983-00) Charlotte Co. 6.6 Mi. Top Soil surfacing only. No Special Design Bridges. Work will not be started on this project until the contract which is now under way has advanced sufficiently to allow soiling outfit on the project.

7. PROJ. F-333-RT. 10—Oakland Church—Suffolk, Nansemond Co. 8.2 Mi. Gravel Roadway, approx. 20 Ac. clearing, 25,000 cu.yds. exc. 10,000 cu.yds. borrow, 1,428 lin. ft. pipe, 38 cu.yds. "A" Conc., 59 cu.yds. "B" conc., 3,242 lbs. reinf. steel, 288 lin. ft. wood gd. rail. No Special Design Bridges. Right reserved to let contract for Gr. & Dr. only.

8. PROJ. F-358A-RT. 31—Ashland—1.4 Mi. North, Hanover Co., 1.4 Mi. Sheet Asph. Surface on conc. base. Alt. Bids 18'-8"-6"-8" Conc. and 4" gravel sub-base, 4" Asphaltic Conc. Base and 1½" sheet Asphalt Top, approx. 3,572 cu.yds. exc., 480 cu.yds. borrow, 112 lin.ft. pipe, 108 cu.yds. "A" conc., 6,628 lbs. reinf. steel. No Special Design Bridges. This project will be let in conjunction with project F-260B.

9. PROJ. F-368-RT. 36—Alexandria—Beginning Proj. 113—in Fairfax Co. Approximately 2.2 Mi. in length, Sta. 0-00 to 58-90 1½" Binder, 1½" Sheet Asphalt Top, Sta. 58-90 to 114-00 3" Bit. Base, and 1½" Sheet Asphalt Top. Approx. 2,500 cu. yds. Exc., 160 lin.ft. pipe, 10 cu.yds. "A" conc., 57 cu.yds. "B" conc. No Special Design Bridges.

Proposal guaranty to be $500.00 for bids less than $100,000 and $1,000 for bids more than $100,000.00. Certified, or cashiers check or proposal bonds acceptable.

Plans and specifications are on file at the office of the State Highway Commission and the offices of the following District Engineers: F-143C Salem, F-260, F310C and F358A Richmond, F-265B Bristol, F-294B Staunton, S-323 Lynchburg, F-333 Suffolk, F368 Culpeper.

Additional plans for bidders on the above project may be obtained upon application to the State Highway Dept., upon receipt of $5.00 payable to H. G. Shirley, $2.50 of which will be refunded if plans are returned within two weeks after bids are opened.

Engineers will be at the following places to show prospective bidders over work as follows: F-143C N. & W. R.R. Station Bedford, Va., 12 Noon Wed., May 7th. F-260 and F-358 Dist. Engr. Office Richmond 10 a.m. Fri. May 9th, F-365B Stinson Hotel, Grundy 12 Noon Tues., April 29th, F-294B Luray 11 a.m. Mon. May 5th, S-310C Hotel Lawrenceville, 10.30 a.m. Fri. May 2nd, S-323B Phoenix 11 a.m. Mon. May 5th, F-333 Dist. Engr. Office Suffolk 11 a.m. Mon. April 28th, F-368 R.R. Station Alexandria 10:30 a.m. Tues. May 6th.

State Highway Commission reserves the right to reject any or all bids.

H. G. SHIRLEY,
Chairman.

C. S. MULLEN,
Chief Engineer.

---

Bids: May 12.

## Street Paving

Red Lion, Pa.

Sealed Proposals will be received by the Boro Council of Red Lion, Pa., until 7:00 P.M., May 12, 1924, for paving approximately 19,000 sq.yds. of streets all within the Boro of Red Lion, at which time Bids will be publicly opened and read at Council Meeting.

Bids will be received upon Reinforced Concrete, Sheet Asphalt or Asphaltic Concrete on a concrete base.

Plans and Specifications may be had after May 1st, from the Boro Engineer, J. A. Michels, upon payment of $5.00 which will not be returned.

Proposals must be made on proposal forms and enclosed in envelopes, both of which will be furnished by the Boro Engineer.

J. A. MICHELS, Boro Engineer,
Red Lion, Pa.

---

Bids: May 24.

## Concrete Road

Bement, Ill.

Sealed proposals will be received by the Board of Supervisors of Piatt County, Ill., until 1 o'clock p.m., May 24th, 1924, for the construction of four sections of P. C. Concrete road, consisting of 13,689.2 sq.yds. with earth shoulders consisting of 38,942.2 sq.yds. and earth excavation 9,949.2 cu.yds. Concrete culverts and drains.

Plans and specifications may be seen at the office of the county clerk or the county superintendent of highways; a certified check must accompany each bid for 5% of the amount of the bid.

The Board reserves the right to reject any or all bids or proposals and to waive technicalities.

W. J. DAY,
Co. Supt. of Highways.

Dated this 28th day of April, 1924.

### OFFICIAL PROPOSALS

Bids: May 15.

## Water Plant Improvement

Sayre, Pa.

Sealed Proposals for Extension to Brick Pumping Station Building; Electric-Motor-Driven Centrifugal Pumping Units; Steam-Engine Driven Centrifugal Pumping Unit; Cast Iron Pipes, Special Castings and Valves; Vitrified Pipe; Pipe Laying, and Coagulating Basin, addressed to The Sayre Water Company, Sayre, Pennsylvania, will be received on Thursday, May 15th, 1924, previous to which time the Drawings and Specifications may be examined, and information obtained at the office of The Sayre Water Company, Sayre, Pennsylvania, or at the office of William H. Boardman, 426 Walnut Street, Philadelphia, Pennsylvania.

A certified check for $500.00, drawn to the order of "The Sayre Water Company," or an equivalent Bidder's Bond, must accompany each proposal.

The Sayre Water Company reserves the right to reject any or all proposals or to accept any proposal for the whole or any portion of the proposed installations, all as provided in the said Specifications.

CHAS. C. WEST,
General Manager,
Sayre, Pennsylvania.

---

Bids: May 9.

## Street Improvements

Roselle Park, N. J.

Sealed Proposals will be received by the Mayor and Council of the Borough of Rosselle Park, Union County, N. J., at 8:30 P.M. (Daylight Saving Time) on Friday, May 9, 1924, at the Borough Hall in said Borough, for the Improvement of the following named streets in said Borough with reinforced concrete pavement and bluestone curbing: Webster Avenue from Locust Street to Sherman Avenue, Sherman Avenue from Webster Avenue to Grant Avenue, Lehigh Place from Webster Avenue to Clay Avenue.

The estimated amount of surface pavement required is 15,500 square yards; curbing, 8,400 lineal feet.

Plans, profiles, cross sections and specifications for the above work, prepared by the Borough Engineer, are on file in the office of the said engineer, 505 Chestnut Street, Roselle Park, N. J. and 100 East 45th Street, New York City, and may there be inspected by prospective bidders. Bidders will be furnished by the engineer with a copy of the specifications and blue prints of the plans and profiles on proper notice and payment of the sum of $5.00.

Bids must be made on the standard proposal forms in the manner required by the specifications; must be enclosed in sealed envelopes bearing the name and address of the bidder on the outside, addressed to the Mayor and Council, Borough of Roselle Park, Union County, N. J., and must be accompanied by a certificate of a surety company guaranteeing the furnishing of a bond on the work, and also accompanied by a certified check for not less than 5% of the total bid, and be delivered at the place and on the hour above named.

The Council reserves the right to reject any or all bids, to waive any or all defects or informalities, or to accept any bid as they may deem for the best interests of the Borough.

By order of the Mayor and Council of the Borough of Roselle Park, N. J.
April 18, 1924.

J. WALLACE HIGGINS,
Borough Engineer.